MMM	MMM MMM	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	\$	
MMM	MMM MMM MMM MMM MMM MMM	66666666666666666666666666666666666666	111 111 111	\$	111 111 111

_\$2

MM

MM MMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMM	MM MM MMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMM	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	RRRRRRRR RRRRRRRR RR RR RR RR RR RR RRRRRR	DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD	\$
		\$				

MMGCRDLSP Table of contents	- TEST OF SCRETVA/SDELTVA/SSETPRT SYSTEM 16-SEP-1984 01:57:53	VAX/VMS Macro V04-00
(2) 48 (2) 52 (3) 331 (6) 507 (7) 770 (8) 918	DECLARATIONS MACROS DATA STORAGE AND MESSAGE STRINGS INITIALIZATION SUBROUTINES TO CALL THE SERVICES MISCELLANEOUS SUBROUTINES	

MM

Page

- TEST OF \$CRETVA/\$DELTVA/\$SETPRT SYSTEM 16-SEP-1984 01:57:53 VAX/VMS Macro V04-00 Page 1 (1)

MEMORY MANAGEMENT SERVICES TEST #1

.TITLE MMGCRDLSP - TEST OF SCRETVA/SDELTVA/SSETPRT SYSTEM SERVICES .IDENT 'V04-000'

VO

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; FACILITY: USER MODE MEMORY MANAGEMENT SERVICES TEST

ABSTRACT: THIS SET OF ROUTINES TESTS THE MEMORY MANAGEMENT SERVICES

ENVIRONMENT: USER MODE DIAGNOSTIC

AUTHOR: PETER H. LIPMAN , CREATION DATE: 6-JAN-77

MODIFIED BY:

0000

16

201234567890

353535354444444

VO2-012 SHZ0009 Stephen Zalewski 20-Aug-1980 Added further tests to system services tested in this program. Also incorporated program into MMG test package.

```
- TEST OF $CRETVA/$DELTVA/$SETPRT SYSTEM 16-SEP-1984 01:57:53 VAX/VMS Macro V04-00 Page 2
DECLARATIONS 5-SEP-1984 01:57:57 [MMGTST.SRC]MMGCRDLSP.MAR;1 (2)
```

MP

```
: INCLUDE FILES:
               .SBTTL MACROS
       MACROS:
               .MACRO LIST
.LIST MEB
.ENDM LIST
               .MACRO
                         NLIST
                         MEB
               . ENDM
                         NLIST
               .MACRO
                         READ SIZ=#1,ADR=(R2),?L1,?L2
                         <SIZ>, <ADR>, L1
               BRB
               MOVAL
                         WAREADERR, R1
               BSBW
                         PROBERR
               .ENDM
                         READ
                .MACRO
                         WRITE SIZ=#1,ADR=(R2),?L1,?L2
               IFNOWRT <SIZ>, <ADR>, L1
               BRB
               MOVAL
                         W^WRITERR,R1
               BSBW
                         PROBERR
               . ENDM
                         WRITE
                         NOREAD SIZ=#1,ADR=(R2),?L1

<SIZ>,<ADR>,L1

W^NOREADERR,R1
               .MACRO
               IFNORD
               MOVAL
               BSBW
                         PROBERR
                         NOREAD
               .ENDM
               .MACRO NOWRITE SIZ=#1,ADR=(R2),?L1
IFNOWRT <SIZ>,<ADR>,L1
MOVAL WANDWRITERR,R1
               BSBW:
                         PROBERR
               . ENDM
                         NOWRITE
                         CRETVA STARTVA, ENDVA, STATUS=S*#SS$ NORMAL, -
INADR=W*INRANGE, RETADR=W*RETRANGE
               .MACRO
               LIST
                          . IF
                                   NB, STARTVA
                         MOVL
                                   STARTVA, W^INRANGE
                         .ENDC
                                   NB, ENDVA
                                   ENDVA, W'INRANGE+4
                         MOVL
                          .ENDC
                         MOVZWL
                                   STATUS, R3
                         MOVAL
                                    INADR, RO
```

```
- TEST OF SCRETVA/SDELTVA/SSETPRT SYSTEM 16-SEP-1984 01:57:53 VAX/VMS Macro V04-00 5-SEP-1984 01:57:57 EMMGTST.SRCJMMGCRDLSP.MAR;1
                                                   MOVAL
                                                                RETADR, R1
CRETVASUBR
                   106
107
108
109
                                      NLIST
.ENDM
                                                   CRETVA
                             THIS MACRO DELETES THE CURRENT VA ADDRESSES. ALSO HIDDEN IN THIS MACRO IS A TEST TO SEE IF A DELETE GLOBAL SECTION MUST ALSO BE INVOKED. THIS OCCURS DURING THE SECOND AND THIRD RUNS OF THE TEST PROGRAM WHEN GLOBAL SECTION MAPPING AND PFN MAPPING ARE USED.
                   114
115
116
117
                                       .MACRO DELTVA STARTVA, ENDVA, STATUS=S*#SS$_NORMAL, -
                                                                INADR=W^INRANGE . RETADR=W^RETRANGE . ?L1
                                       LIST
                   12012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901
                                                    CMPW
                                                                W^WHICHRUN, #RUN1
                                                                                                       : IF USING MAPPED SECTIONS FOR TESTS
                                                   BLEQ
                                                                                                       DELETE SECTION AND THEN DO A DELTVA
                                                   $DGBLSC
                                                                GSDNAM=<W^GBLSECNAM>
                                                                NB, STARTVA
                                                   MOVL
                                                                STARTVA, W'INRANGE
                                                    .ENDC
                                                                NB . ENDVA
                                                                ENDVA, W'INRANGE+4
                                                    MOVL
                                                    .ENDC
                                                    MOVZWL
                                                                STATUS, R3
                                                                INADR, RO
RETADR, R1
                                                   MOVAL
                                                   MOVAL
                                                                DELTVASUBR
                                                   BSBW
                                       NLIST
                                       . ENDM
                                                   DELTVA
                                       .MACRO
                                                   EXPREG PAGENT, REGION=#0, STATUS=S*#SS$_NORMAL,-
                                                   RETADR=W^RETRANGE
                                      LIST
                                                                STATUS, R3
PAGCNT, R4
                                                    MOVZWL
                                                   MOVL
                                                   MOVAL
                                                                RETADR, R1
                                                    . IF
                                                                 IDN, <REGION>, <#0>
                                                   CLRL.
                                                   MOVL
                                                                REGION, R5
                                                    .ENDC
                                                   BSBW
                                                                EXPREGSUBR
                                       NLIST
                                                   EXPREG
                                       . ENDM
                                                   SETPRT ACC, STARTVA, ENDVA, STATUS=S*#SS$ NORMAL, -
INADR=W*INRANGE, RETADR=W*RETRANGE, -
PRVPRT=NONE, PRVPRTADR
                                       . MACRO
                                      LIST
                                                                NB, STARTVA
                                                   MOVL
                                                                STARTVA, W'INRANGE
                                                   .ENDC
                                                                NB, ENDVA
```

VO

```
- TEST OF $CRETVA/$DELTVA/$SETPRT SYSTEM 16-SEP-1984 01:57:53 VAX/VMS Macro V04-00 MACROS 5-SEP-1984 01:57:57 CMMGTST.SRCJMMGCRDLSP.MAR;1
                                                                                                                                                                                                                                                                                                                                                                                                                                                     Page
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (2)
                                                                                                                                                         MOVL
                                                          16345678901177347890118857899
                                                                                                                                                                                                ENDVA.W^INRANGE+4
                        $\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\bar{0}\
                                                                                                                                                           .ENDC
                                                                                                                                                                                              STATUS, R3
INADR, R0
RETADR, R1
S^#PRT$C_'ACC, R4
S^#PRT$C_'PRVPRT, R5
B, PRVPRTADR
                                                                                                                                                          MOVZWL
                                                                                                                                                          MOVAL
                                                                                                                                                          MOVAL
                                                                                                                                                          MOVZBL
                                                                                                                                                          MOVZBL
                                                                                                                                                                                                DIF . <PRVPRT> . <NONE>
                                                                                                                                                          MOVAL
                                                                                                                                                         .IFF
CLRL
.ENDC
.IFF
                                                                                                                                                                                                R6
                                                                                                                                                          MOVAL
                                                                                                                                                                                                PRVPRTADR, R6
                                                                                                                                                           .ENDC
                                                                                                                                                         BSBW
                                                                                                                                                                                                SETPRTSUBR
                                                                                                                   NLIST
                                                                                                                     . ENDM
                                                                                                                                                         SETPRT
                                                                                     THIS MACRO USED TO CREATE PERMANENT GLOBAL SECTIONS. THE FILE NAME AND GBL SECTION DEVICE NAME ARE DECLARED INDEPENDANTLY OF THIS MACRO AND ARE PUSHED ONTO THE STACK MANUALY BEFORE THE $CRMPSC SERVICE IS
                                                                                      CALLED.
                                                                                  ALSO NOTE THE TEMPORARY FIX LOCATED AT THE BOTTOM OF THE MACRO. THE FIX IS NEEDED BECAUSE THE LAST GLOBAL SECTION MAY NOT HAVE BEEN DELETED BY THE TIME THE NEXT MAPPED SECTION IS CREATED. IN THIS CASE THE RETURNED ERROR IS TRAPPED AND THE SECTION IS REMAPPED UNTIL THE SUCCESS CODE IS RETURNED. THIS BUG IS SLATED TO BE FIXED. WHEN THAT IS ACCOMPLISHED REFER TO THE COMMENTS ABOVE THE FIX TO DETERMINE WHAT LINES SHOULD BE REMOVED TO DELETE THE PATCH.
                                                          190
191
192
193
                                                          194
195
                                                         CREMAPSEC -
                                                                                                                    .MACRO
                                                                                                                                                         STARTVA
                                                                                                                                                          ENDVA
                                                                                                                                                          STATUS
                                                                                                                                                            INADR=<W^INRANGE>,-
                                                                                                                                                                                                                                                                                                                    : INPUT RANGE
                                                                                                                                                          RETADR=<W^RETRANGE>
                                                                                                                                                                                                                                                                                                                     RETURN RANGE
                                                                                                                                                                                                                                                                                                                  SECTION FLAGS
GLOBAL SECTION NAME
RELATIVE PAGE
FILE NAME
MAX SIZE OF SECTION
STARTING WIRT BLK NO. IN FILE
                                                                                                                                                         FLAGS=#0
                                                                                                                                                          GSDNAM=<W^GBLSECNAM>,-
                                                                                                                                                          RELPAG=#0
                                                                                                                                                         FILNAM=<W^FILENAME>,-
                                                                                                                                                          PAGCNT=#0
                                                                                                                                                          VBN=#0
                                                                                                                                                          ?L1
                                                                                                                   LIST
                                                                                                                                                                                                NB, STARTVA
                                                                                                                                                                                                STARTVA, W'INRANGE
                                                                                                                                                         MOVL
                                                                                                                                                         .ENDC
                                                                                                                                                                                                NB, ENDVA
                                                                                                                                                          MOVL
                                                                                                                                                                                                ENDVA, W^INRANGE+4
                                                                                                                                                            .ENDC
                                                                                                                                                         MOVZWL
                                                                                                                                                                                          STATUS, R3
```

MP

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- TEST OF SCRETVA/SDELTVA/SSETPRT SYSTEM 16-SEP-1984 01:57:53 VAX/VMS Macro V04-00 5-SEP-1984 01:57:57 [MMGTST.SRCJMMGCRDLSP.MAR;1
                                                     PUSHL F
PUSHL F
$PUSHADR
                                                                  VBN
PAGCNT
                    FILNAM
                                                      PUSHL
                                                                  RELPAG
                                                      SPUSHADR
                                                                                GSDNAM
                                                     PUSHL
                                                                  FLAGS
                                                      SPUSHADR
                                                                                RETADR
                                                      SPUSHADR
                                                                                INADR
                                                      CALLS #8,LIB$_CREMAPSEC
                          IN ORDER TO DELTE THE PATCH MENTIONED ABOVE SIMPLY REMOVE THE LINES FROM THERE TO THE NEXT SET OF ASTERICS.
                                                                   #^X1828A,R0
                                                                                                          ; IF PREVIOUS GBL SECTION HASN'T
                                                      BEQL
                                                                                                           BEEN DELETED TRY CREMAPSEC AGAIN.
                          ;******
                                                     MOVAL
                                                                  W^CRMPSCERR,R1
                                                     BSBW
                                                                   CHECK1
                                        NLIST
                                        .ENDM
                                                     CREMAPSEC
                             THIS MACRO IS USED TO DETERMINE WHETHER THE MAKEVA SHOULD BE TRANSLATED INTO A SCRETVA, A SCRMPSC USING GLOBLAL SECTIONS, OR A SCRMPSC USING PFN MAPPING. THE DECISION IS BASED UPON WHICH RUN THE PROGRAM IS CURRENTLY IN.
                             ALSO NOTE THAT THE FIX THAT WAS APPLIED TO $CRMPSC MACRO LOCATED ABOVE, WAS ALSO APPLIED TO THE $CRMPSC CALL LOCATED IN THE THIRD PART OF THIS MACRO. UPON THE FIX OF THIS BUG REFER TO THE FIXED AREA TO FIND OUT WHAT MUST BE DELETED IN ORDER TO GET RID OF THE TEMPORARY PATCH.
                                                                  STARTVA, ENDVA, STAT=S^#SS$_NORMAL, ?L1, ?L2, ?L10, ?L20, -
?L30, ?L40
                                        .MACRO MAKEVA
                                        LIST
                                                     CASEL W^WHICHRUN, #1, #RUNMAX
                          L1:
                                                     .WORD L10-L1
.WORD L20-L1
.WORD L30-L1
                                                                                                          : IF FIRST RUN USE CRETVA.
: IF SECOND USE GBL CREMAPSEC
                                                                                                          : IF THIRD USE PFN MAPPING
                          L10:
                                                     CRETVA STARTVA, ENDVA, STATUS=STAT
                                        LIST
                                                     BRW L40
                          L20:
                                       CREMAPSEC STARTVA, ENDVA, STATUS=STAT, -
FLAGS=#<SEC$M_GBL!SEC$M_PERM!SEC$M_DZRO!SEC$M_WRT>, -
PAGCNT=#25
                                        LIST
                                                     BRW L40
                          L30:
                                                      . IF
                                                                  NB, STARTVA
                                                     MOVL
                                                                  STARTVA, W'INRANGE
                                                     .ENDC
                                                                  NB, ENDVA
```

```
- TEST OF $CRETVA/$DELTVA/$SETPRT SYSTEM 16-SEP-1984 01:57:53 VAX/VMS Macro V04-00 MACROS 5-SEP-1984 01:57:57 EMMGTST.SRCJMMGCRDLSP.MAR;1
                                                     MOVL
ENDC
                                                                ENDVA, W'INRANGE+4
                        MOVZWL STAT, R3
                              L2:
                                        SCRMPSC_S
INADR=<W^INRANGE>,-
RETADR=<W^RETRANGE>,-
GSDNAM=<W^GBLSECNAM>,-
                                                     FLAGS=#<SEC$M_GBL!SEC$M_PERM!SEC$M_PFNMAP!SEC$M_WRT>,-
PAGCNT=#25
                              IN ORDER TO REMOVE THE TEMPORARY FIX EXPLAINED ABOVE REMOVE THE LINES STARTING FROM HERE AND EXTENDING THE THE NEXT SET OF ASTERICS.
                                                     CMPL
                                                                 #^X1828A,RO
                                                                                                   ; IF PREVIOUS GBL SECTION HASN'T
                                                     BEQL
                                                                                                   BEEN DELETED TRY CREMAPSEC AGAIN.
                              ;*****
                                                     MOVAL
                                                                 W^CRMPSCERR,R1
                                                                 CHECK1
                                                     BSBW
                              L40:
                                          NLIST
                                          . ENDM
                                                     MAKEVA
                                          . MACRO
                                                     RANGECHK ONOROFF
                                          LIST
                                                     IDN <ONOROFF>, <OFF>
                                          . IF
                                                                #CTL$M_RNGCHK, W^CTLFLG
                                                     BICL
                                          . IFF
                                                     BISL
                                                                #CTL$M_RNGCHK,W^CTLFLG
                                         .ENDC
                                          . ENDM
                                                     RANGECHK
                                 EQUATED SYMBOLS:
                                                                                                   DEFINE SYSTEM SERVICE CODES DEFINE SECTION CODES
                                          $SSDEF
                                          SSECDEF
                                          $PRTDEF
                                          $GBLINI
                                                                                                   : PEFINE CONTROL BITS IN R3 : LOOP IN MEMORY WRITE LOOP
                                          SVIELD
                                                     CTL,0,<-
                                                     <MEMLOOP, MASK>,-
<TSTLOOP, MASK>,-
<PIDMSG, MASK>,-
              0000
0000
0000
0000
0000
0000
0000
0000
                                                                                                   REDO ENTIRE TEST FROM TOP PUT PROCESS ID IN EACH TYPEOUT
                                                     <RNGCHK, ,MASK>-
                                                                                                   ON IF CHECKING RETURN RANGE
00000001
00000002
00000003
00000010
                                          RUN1=1
                                          RUN2=2
                                          RUNMAX=3
                                         PRT$C_NONE=184
                                 OWN STORAGE:
```

V

```
- TEST OF SCRETVA/SDELTVA/SSETPRT SYSTEM 16-SEP-1984 01:57:53 VAX/VMS Macro V04-00 DATA STORAGE AND MESSAGE STRINGS 5-SEP-1984 01:57:57 [MMGTST.SRC]MMGCRDLSP.MAR;1
                                                                  DATA STORAGE AND MESSAGE STRINGS
DATAO, PAGE, WRT, NOEXE
                          00000000
                                              INRANGE:
                   80000000
                                              RETRANGE:
                   00000010
00000006
00000018
0000001C
                                              CTLFLG: .LONG
                                                                  CTLSM_TSTLOOP!CTLSM_PIDMSG
                                              SAVEND: .BLKL
                                              PID:
                                                                                                          : PROCESS ID
                                              MAXPASSCNT:
                   00000003
                                                        . LONG
                                                                                                           NUMBER OF PASSES TO RUN
                                              PASSCNT:
                   00000024
                                                                                                          ; PASS COUNTER
                                              MAXWHICHRUN:
                   00000003
                                                        . LONG
                                                                                                           : NUMBER OF RUNS
                                              WHICHRUN:
                   00000020
                                                        .BLKL
                                                                                                           :WHICH RUN COUNTER
                                              PREVPROT:
                                                                  FAC=PUT, FNA=OUTNAMADR, FNS=OUTNAMSIZ; FAB FOR OUTPUT ; RECORD ACCESS BLOCK FOR OUTPUT ; RETURN LENGTH FROM FAO
                                                        SFAB
SRAB
                                             FAB:
                                              RAB:
                   000000C4
                                              MSGLEN: .BLKL
        000000E2'000000A0'
                                              MSGBUFD: LONG
                                                                                                           MESSAGE BUFFER DESCRIPTOR
                                                                  MSGBUFSIZ, MSGBUF
                                             PIDMSGD:
       000000DE '00000004'
                                                        .LONG
                                                                  MSGBUF-PIDMSG, PIDMSG
                                              ; **** DO NOT SEPARATE OR REORDER THE FOLLOWING LINES
                                              MSGBUFID:
                   0A 0D
4F 52 50
20 20 20
00000182
                                                                  *015, *012
$PROCESS $
                                              CRLF:
20 53 53 45 43 20
                                             PIDMSG: .ASCII
                                                                  160
                                              MSGBUF: .BLKB
                                                                                                          MESSAGE BUFFER USED BY FAO
                   000000A0
                                                        MSGBUFSIZ=.-MSGBUF
                                                ***** DO NOT SEPARATE OR REORDER THE PRECEEDING LINES
                           00000000
                                                        .PSECT DATA1, PAGE, WRT, NOEXE
                                              WRTPAGES:
                   00000800
                                                                  128+4
                                                        .BLKL
```

DATA2, PAGE, NOWRT, NOEXE

.PSECT

128+4

.BLKL

RDPAGES:

00000000

00000800

MMG	CRD	LSI O	•						DATA	ST OF SCRE	TVA/SDELTVA/SSET ND MESSAGE STRIN	PRT SYSTEM 16-SEP-1984 01:57:53 VAX/VMS Macro V04-00 Page (5) 5-SEP-1984 01:57:57 [MMGTST.SRC]MMGCRDLSP.MAR;1
									000	000000 37 0000 37 0000 38	8 .PSECT	
		54	55	50	54	55	46	24	53 59 53 0000000A	0000 38 0000 38 0000 38 0000 38 0000 38	OUTNAMADR: ASCII OUTNAM	/SYS\$OUTPUT/ SIZ=OUTNAMADR
52 58 41 40	52 21 57	45 20 20	20 30 53	41 20 55	5643	54	45	52 20 53	43 2F 21 20 52 4F 20 2C 4C	000A 38 000A 38 0016 0022	6 CRETVAERRADR: 7 .ASCII	\$!/CRETVA ERROR - PC = !XL, STATUS WAS !XL, SHOULD BE !XL\$
	20	3D 20 58	20 20 21	53 40 52 40 20	25848DF	21 21 20 1	20E02C	259048	42 20 44 09 2F 21 20 4C 58 41 54 45 21 20 2D	003A 0042 38 004E 005A	8 .ASCII	\$!/ INADR = !XL - !XL, RETADR = !XL - !XL!/\$
					2F	21	40	58	21 20 2D 00000063	0066 0060 38	9 CRETVA	RRSIZ=CRETVAERRADR
52 58 41 40	52	45 20 20 4F	20 30 53 48	41 20 55	56	54 50 41	4C 20 54	45 20 53	44 2F 21 20 52 4F 20 2C 4C	0066 006D 38 006D 39 006D 39 006D 39	1 DELTVAERRADR: 2 .ASCII	\$!/DELTVA ERROR - PC = !XL, STATUS WAS !XL, SHOULD BE !XL\$
		3D 20 58	20 20 20 21	4C 52 4C 20	20848 50 54 50	21 21 20	20E02	45 49 20 44	42 20 44 09 2F 21 20 4C 58 41 54 45	0085 0091 009D 00A5 00B1 00BD	3 .ASCII	\$!/ INADR = !XL - !XL, RETADR = !XL - !XL!/\$
					2F	21	40	58	00000063	0009 0000 39 0000 39	4 DELTVA	RRSIZ=DELTVAERRADR
52 58 641 64C	52 21 57	45 20 20 4F	20 30 53 48	43 20 55	53 43 54	50 50 41	4D 20 54	52 20 53	43 2F 21 20 52 4F 20 2C 4C	0000 39 0000 39 000C 00E8	6 CRMPSCERRADR: 7 .ASCII	\$!/CRMPSC ERROR - PC = !XL, STATUS WAS !XL, SHOULD BE !XL\$
21 2 52 2 20 4				53 40 52 40 20	2544 550 2F	20 21 21 20 21	40 40 40 54 0	58 49 20 48	21 20 53 42 20 44 09 2F 21 20 4C 58 41 54 45	00F4 0100 0108 39 0114 0120	8 .ASCII	\$!/ INADR = !XL - !XL, RETADR = !XL - !XL!/\$
	3				2F	21	40	58	21 20 2D 00000063	012¢ 0133 39	9 CRMPSC	RRSIZ=CRMPSCERRADR
52 58	52	45	20 30	47	45	52	50	58 20	45 2F 21 20 52 4F	0133 59 0133 40 0133 40 0135 40	1 EXPREGERRADR: 2 .ASCII	\$!/EXPREG ERROR - PC = !XL, STATUS WAS !XL, SHOULD BE !XL\$

.ASCII \$!/

.ASCII SRETADR = !XL - !XL!/\$

EXPREGERRS1Z=.-EXPREGERRADR

PAGENT = !SL, REGION = P!UB SPACE, \$

403

404

405

(4)

```
- TEST OF SCRETVA/SDELTVA/SSETPRT SYSTEM 16-SEP-1984
DATA STORAGE AND MESSAGE STRINGS 5-SEP-1984
MMGCRDLSP
V04-000
                                                                         406
407
408
                                                                               SETPRTERRADR:
          500
                    25545400
                                  25420E02C2512
                         43
54
52
54
58
45
50
                              41
20
21
21
21
20
                                       490480410
     20
          3D
20
58
               20
20
21
                                                                                             .ASCII $!/
                                                                                                                        INADR = !XL - !XL. RETADR = !XL - !XL$
                   49 20 21
                        56420
     55
20
48
42
               4F
20
31
                             45 45
                                                                                                                       PREVIOUS PROTECTION WAS !1XB, SHOULD BE !1XB!/$
                                                                                              .ASCII $!/
                                                                                              SETPRTERRSIZ=.-SETPRTERRADR
                                             20 2F 21
2D 20 52
20 3D 20
00000021
                                                                                             ASCII $!/ READ ERROR - LOCATION = !XL !/$
                                        52
20
21
                   20
41
21
                             41
4F
4C
                                  45
40
58
         52
49
              45
54
2F
                        44 43 20
                                                                                             READERRSIZ= .- READERRADR
                                            20 2F 21
4F 52 52
4E 4F 49
00000024
45 20 44 41
54 41 43 4F
2F 21 20 4C
                   45
40
58
                        52
20
21
                             50
50
50
                                   4F
20
3D
                                       4E
52
20
                                                                                                          $! / NO-READ ERROR - LOCATION = !XL !/$
                                                                                             NOREADERRSIZ= .- NOREADERRADR
                                             20 2F 21
20 52 4F
3D 20 4E
00000022
                             49
40
58
                                  52
20
21
         45 20
54 41
2F 21
                   45 43 20
                        54
4F
4C
                                       57
20
20
                                                                                              ASCII $!/ WRITE ERROR - LOCATION = !XL !/$
                                                                                             WRITERRSIZ= .- WRITERRADR
                                             20 2F 21
52 52 45
4F 49 54
00000025
              49 52
40 20
58 21
                                             20
52
4F
                                                                                                          $! / NO-WRITE ERROR - LOCATION = !XL !/$
         54
4F
4C
                        57
20
20
                             30
20
20
                                  4F
52
20
                                       4E
4F
4E
                                                                                             NOWRITERRSIZ=.-NOWRITERRADR
                                                                                RANGERRADR:
                        52 55
4F 52
4E 4F
                                                                                              ASCII $!/RETURN RANGE ERROR - LOCATION = !XL$
         20
20
               20
20
                   4E
52
20
                                   52
                                            09 2F 21
20 4C 58
44 41 54
58 21 20
0000004F
                   52
40
21
                                        49
20
52
40
                                                                         431
          3D
20
40
                        58
20
                              41
21
30
2F
                                                                                              ASCII $!/
                                                                                                                        INADR = !XL - !XL, RETADR = !XL - !XL!/$
                                   20
20
21
                                                                                             RANGERRSIZ= .- RANGERRADR
                                                                                IDMSGADR:
4E 41 4D 20 59 52 4F 4D 45 4D 2F
56 52 45 53 20 54 4E 45 4D 45 47
                                                                                                          $!/MEMORY MANAGEMENT SERVICES TEST #1 (CRDLSP). PASS !UL!/$
```

MMG VO4	CRE	DL SI	P						- TE	ST OF S	BCRETY SE AND	A/SDE MESS	ELTVA SAGE	A/SSET	PRT SY	STEM 16	-SEP-1 -SEP-1	984 01 984 01	:57:53 :57:57	VAX [MR]	/VMS M	lacro V RCJMMG	04-00 CRDLS	SP.MAR; 1	Page	10
31 50	23 20	50	54 29 2F	53 50 21	45 53 40	54 40 55	20 44 21	53 52 20	45 43 49 43 28 20 53 53 41 00000039	032A 0336 0342 034B 034B	436 437		1	IDMSGS	12=1	DMSGADR										
20 4E 53 20 2A	20 20 55 52 20	2A 4C 20 41 20	2A 4C 4E 4C 20	2A 49 55 45	2A 57 52 47 43	2A 20 25 41	20 54 45 50	20 53 42 53 42 53 42 53 42	20 2F 21 45 54 20 20 57 4F 47 4E 49 20 41 56 2A 2A 2A 20 2F 21 000000043	034B 0357 0363 036F 037B 0387	439	RUN1		ASCII		*****	,,,	T WILL	. NOW B	IE RUM	USING	REGUL	AR VA	A SPACE	****	•\$
									00000043	038B 038E 038E	440 441 442 443	RUN2_			SGŠ I Z=	\$ RUN1_	MSGADR									
20 4E 53 4C 20	20 20 55 42 20	2A 4C 20 47 20	2A 4C 4E 20 53	2A 49 55 4D 4E	2A 57 52 54	2A 20 20 49	20 54 50 54 2A	20 53 20 43 43 43	20 2F 21 45 54 20 20 57 4F 47 4E 49 45 53 20 2A 2A 2A 20 2F 21 00000044	038E 038E 039A 03A6 03B2 03BE 03CA		NONE.	•	.ASCII		****	160	T WILL	NOW 8	E RUM	USING	PERM	GBL S	SECTIONS	***	**\$
									00000044	03CF 03D2 03D2	445		É	RUN2_M	sgsiz=	\$ RUN2_	MSGADR									
20 4E 53	20 20 55 50 2A	2A 4C 20 41 2A	2A 4C 4E 4D 2A	2A 49 55 20 2A	2A 57 52 4E 2A	2A 20 20 46 20	20 54 45 50 20	20 53 42 20 20	20 2F 21 45 54 20 20 57 4F 47 4E 49 47 4E 49	03CF 03D2 03D2 03D2 03DE 03EA 03F6 0402 040D 0410	446 447 448 449	RUN3_	MSGA	ADR: .ASCII	\$!/	****	TES	T WILL	. NOW B	IE RUM	USING	FFN M	IAPP I I	NG ***	**\$	
	67	671	611			20	20	20	20 2F 21 0000003E	040D 0410	450 451 452		Ř	ASCII RUN3_M	\$!/ SGSIZ=	\$ RUN3_	MSGADR									
									4C 55 21 00000003		455 454 455	PIDC1		ASCII	\$!UL \$1Z=	\$ PIDCTLA	DR									
						54	53	54	47 4D 4D 00000006	0413 0413 0419	457 458 459	GBLSE		MADR: ASCII BLSEC	SMMG NAMSIZ	TST\$ =GBLS	ECNAMA	DR								
		54	41	44	2E	54	53	54	47 4D 4D 0000000A	0410 0413 0413 0413 0413 0419 0419 0419 0419 0423	456 457 458 460 461 463 464	FILEN		ASCII	SMMG MESIZ=	ITST.DAT	S AMEADR									

MMC VO4

```
STRING DESCRIPTORS
                                         .ALIGN LONG
                                CRETVAERR:
0000000A'00000063
                                                 CRETVAERRSIZ, CRETVAERRADR
                                          LONG
                                DELTVAERR:
0000006D 00000063
                                         . LONG
                                                 DELTVAERRSIZ, DELTVAERRADR
                                EXPREGERR:
00000133'00000072
                                          LONG
                                                 EXPREGERRS1Z, EXPREGERRADR
                                CRMPSCERR:
000000D0'00000063
                                         . LONG
                                                 CRMPSCERRSIZ, CRMPSCERRADR
                                SETPRTERR:
000001A5'00000092
                                         . LONG
                                                 SETPRTERRS1Z, SETPRTERRADR
                                READERR:
00000237'00000021
                                         . LONG
                                                 READERRSIZ, READERRADR
                                NOREADERR:
00000258'00000024
                                         . LONG
                                                 NOREADERRS1Z, NOREADERRADR
                                WRITERR:
00000276'00000022
                                          LONG
                                                 WRITERRSIZ, WRITERRADR
                                NOWRITERR:
0000029E'00000025
                                         . LONG
                                                 NOWRITERRSIZ, NOWRITERRADR
                                RANGERR:
000002C3'0000004F
                                         . LONG
                                                 RANGERRSIZ, RANGERRADR
                                IDMSG:
00000312'00000039
                                         .LONG
                                                 IDMSGSIZ, IDMSGADR
                                RUN1_MSG:
0000034B'00000043
                                         . LONG
                                                 RUN1_MSGSIZ,RUN1_MSGADR
                                RUN2_MSG:
0000038E '00000044
                                         . LONG
                                                 RUN2_MSGSIZ,RUN2_MSGADR
                                RUN3_MSG:
                                         .LONG
000003D2'0000003E
                                                 RUN3_MSGSIZ,RUN3_MSGADR
                                PIDCTL:
00000410'00000003
                                         . LONG
                                                 PIDCTLSIZ, PIDCTLADR
                                GBLSECNAM:
                            502
503
504
505
00000413'00000006
                                         . LONG
                                                 GBLSECNAMSIZ, GBLSECNAMADR
                                FILENAME:
00000419'0000000A
                    04A4
                                         . LONG
                                                 FILENAMESIZ, FILENAMEADR
                    04AC
```

- TEST OF SCRETVA/SDELTVA/SSETPRT SYSTEM 16-SEP-1984 01:57:53 VAX/VMS Macro V04-00 INITIALIZATION 5-SEP-1984 01:57:57 EMMGTST.SRCJMMGCRDLSP.MAR;1 12 (6)

```
.SBTTL INITIALIZATION
..........
:PROGRAM DESCRIPTION:
```

THIS PROGRAM TESTS THE FOLLOWING SYSTEM SERVICES: SCRETVA, SDELTVA, SSETPRT

THE SYSTEM SERVICES ARE TESTED IN THE FOLLOWING MANNER. THE PROGRAM IS DESIGNED TO MAKE THREE RUNS. EACH RUN MAKES THREE PASSES. ON THE FIRST RUN WHEN A MAKEVA IS ENCOUNTERED IT IS REPLACED WITH A CRETVA. IT THEN MAKES THREE PASSES THROUGH THE PROGRAM DOING ALL THE POSSIBLE TESTS. ON THE SECOND RUN THE MAKEVA IS ENCOUNTERED AND IS REPLACED WITH A SCRMPSC THAT MAPS A PERMANENT GLOBAL SECTION. FOR THE THIRD RUN, THE MAKVA IS REPLACED WITH A SCRMPSC THAT MAPS A PFN GLOBAL SECTION. USING THIS APPROACH THE SCRMPSC SYSTEM SERVICE WAS ALSO ABLE TO BE TESTED AS ALL ERROR PATHS FOLLOWED WHEN USING NORMAL VA ARE ALSO APPLICABLE WHEN USING GBL SECTION MAPPING.

FOR EACH OF THESE RUNS A MESSAGE IS SENT TO THE TERMINAL INFORMING THE OPERATOR AS TO WHICH OF THESE SUBTITUTE MAKEVA'S WILL BE USED FOR THAT SET OF PASSES.

REFER TO MASD\$:[MMGTST.COM]MMGTST.RAP FOR FURTHER INFORMATION REGARDING JUST HOW COMPLETELY THE ABOVE MENTIONED SYSTEM SERVICES ARE TESTED BY THIS PROGRAM.

THERE IS A BUG IN SCRMPSC THAT WILL BE FIXED IN THE FUTURE. UNTIL THIS FIX TAKES PLACE THERE AREA TEMPORARY PATCH'S LOCATED AT THE END OF THE CREMAPSEC MACRO AND MAKVA MACRO WHICH CIRCUMVENT THIS PROBLEM. UPON CORRECTION OF THIS BUG REFER TO THESE ABOVE MENTIONED MACROS TO FIND OUT HOW TO REMOVE THESE TEMPORARY PATCHES.

ALSO, THE FILE MMGTST.DAT, WHICH IS CREATED BY RUNNING MMGCRTFIL.MAR, IS NECESSARY TO RUN THIS PROGRAM AS IT IS REFERENCED BY CREMAPSEC.

*PRIVILEGES: IN ORDER TO RUN THIS PROGRAM YOU MUST HAVE IN YOUR POSSESION THE PRIVILEGES PRMGBL AND PENMAP.

START HERE

550 STAR 551 552 553 554 10\$: 555 20\$: 557 558 559 560 561 563 MAIN START: SOPEN BLBC RO, 108 SCONNECT WARAB RO.20\$

BLBS
SEXIT S RO
SRESUME S PID
MOVZUL PID.RO
SEAO S PIDCTL, MSGLEN, PIDMSGD, RO
HAICHRUN

:ENTRY MASK OPEN THE FILE "SOUTPUT" BRANCH IF ERROR CONNECT THE RECORD ACCESS BLOCK V04

EXIT WITH STATUS IN RO SET UP PROCESS ID

:INIT THE PROCESS ID STRING INIT THE RUN COUNT TO ZERO

MAIN_PROGRAM:

0000 04AC OE 50 E9 0489 04BC 09 50 E8 04D3 00000018'EF 3C

04

00000028'EF

04AC

04AC

04AC

04AC

04AC

04AC 04AC 04AC 04AC 04AC 04AC 04AC 04AC 04AC

04AC 04AC

04AC 04AC

04AC

04AC 04AC 04AC 04AC

04AC 04AC

04AC 04AC 04AC 04AC

04AC 04AC 04AC

04AC

04AC

04AC 04AC 04AC

04AC

MMGCRDLSP V04-000						- TI	EST OF SCRET	TVA/SDELTY	A/SSETP	F 2 RT SYSTEM 16-SEP-1984 01:57: 5-SEP-1984 01:57:	53 VAX/VMS Macro V04-00 Page 13 57 EMMGTST.SRCJMMGCRDLSP.MAR;1 (6)
							0507 566 0507 566 0507 566 0507 566 0507 566	THIS REFERENCE IS EN	OUNTER ENCED, O COUNTERE	IS USED TO DETERMINE WHICH C R IF THE CRETVA IS TO BE USE D.	RMPSC IS TO BE D. WHEN A MAKEVA
	00	0028	0020	0°CF 00	24 ' 61	D0 F3	050C 570		MOVL	#1, L'PASSENT W'MAXWHICHRUN, W'WHICHRUN, PR	RESTART THE PASS COUNT
				56	01	9A	0514 577 0514 577 0514 577 0517 577	END:	MOVZBL SEXIT_S	#SS\$_NORMAL,RO	
		03	01	00	2 8 ' CI		0520 576 0520 576 0526 576	PRESTART	CASEL	W^WHICHRUN,#1,#RUNMAX	
						0006 0022 0044	0526 579 0526 579 0528 580		.WORD .WORD .WORD	CRETVA MESSAGE-L50 GBL SET MESSAGE-L50 PFNMAP_MESSAGE-L50	FOR EACH RUN PRINT MESSAGE DESCRIBING WHICH VA SPACE IS BEING USED.
					ODC/	30	052C 583 052C 583 052C 584 0543 583	CRETVA_	SFAO_S BSBW BRB	RUN1 MSG.MSGLEN,MSGBUFD TYPEMSGBUF INIT_START	
			0010) CF	04 00A9 00E6	30	0548 588 0548 589 0540 590 0564 593 0567 593		MESSAGE BISL \$FAO_S BSBW BRW	#CTL\$M_PIDMSG,W^CTLFLG RUN2_MSG,MSGLEN,MSGBUFD TYPEMSGBUF RSTART	;ALLOW PROCESS ID TO PRINT
			0010)°CF	04 0087 0004	30	056A 595 056A 595 056F 596 0586 597	PFNMAP_F	MESSAGE: BISL \$FAO_S BSBW BRW	#CTLSM_PIDMSG,W^CTLFLG RUN3 MSG,MSGLEN,MSGBUFD TYPEMSGBUF RSTART	;ALLOW PROCESS ID TO PRINT
			0010	53 54	04 01 08 C		058C 600 058C 601 0591 602	INIT_ST	ART: BICL EXPREG	#CTL\$M_PIDMSG,W^CTLFLG #1 MOVZWL S^#SS\$_NORMAL,R3 MOVL #1,R4 MOVAL W^RETRANGE,R1 CLRL R5	;STOP PROCESS ID FROM PRINTING
			52 0000 0014	00 0'CF	0010 08'CI	3C DE DE DE D4 30 7D 7D	0591 0594 0597 0590 0596 05A1 603 05A6 604 05AB 605 05B0 606		MOVQ MOVL	BSBW EXPREGSUBR WRETRANGE, R2 R2, WINRANGE R2, WSAVEND	FIND END OF REGION'S VA SPACE AND SAVE FOR FUTURE TESTS.
							05A1 603 05A6 604 05AB 603 05B0 604 05B0 605 05C4 608 05D6 609 05EA 616 05FA 617 060A 617		READ READ WRITE WRITE NOREAD	#1,RDPAGES #1,CODEPAGES #1,WRTPAGES #1,(R2) #2,<^X1FF(R2)>	CHECK READABILITY AND WRITABILITY; OF PAGES CREATED AT LINK TIME.
							05FA 61 060A 61		WRITE NOREAD READ DELTVA	#1,(R2) #2,<^X1FF(R2)> #1,<^X1FF(R2)>	:1ST READABLE, 2ND NOT :TEST 1 BYTE AT EDGE
			01	00	28°CI	B1 15)	DEFIAN	CMPW W^WHICHRUN,#RUN1 BLEQ 30011\$; IF USING MAPPED SECTIONS FOR TESTS; DELETE SECTION AND THEN DO A DELTV

				- TES	ST OF	CRETY	A/SDELT	VA/SSETPI	RT SYSTE	M 16-SEP-1984 01:57:53 5-SEP-1984 01:57:57	VAX/VMS Macro V04-00 Page 14 [MMGTST.SRC]MMGCRDLSP.MAR;1 (6)
00	0000000	FE73	0	OD 7f DD FB			300118:		PUSHL PUSHAQ PUSHL CALLS	#0 W^GBLSECNAM #0 #3,G^SYS\$DGBLSC	
	50 51	53 0000 0 0008 0	F	SC DE DE 30	00000000000000000000000000000000000000	614	300118:	NOREAD	MOVZUL MOVAL BSBW	S^#SS\$ NORMAL,R3 W^INRANGE,R0 W^RETRANGE,R1 DELTVASUBR	
					0650 0650 0650	614 615 616 617	RSTART:	DANCECHI	K OM		
	0010	CF O	8	CA CA	0650 0655 065A	618		BICL SFAO_S	BISL #CTL\$M	#CTL\$M_RNGCHK,W^CTLFLG PIDMSG,W^CTLFLG ISGLEN,MSGBUFD,PASSCNT BUF	STOP PROCESS ID FROM PRINTING
		009	6	30	0677 067A	620 621		BSBWEXPREG	TYPEMS	BUF	
	51	53 54 0008 °C	F	30 DE D4 30 7D 7D	067A 067D 0680 0685	OE.			MOVZUL MOVAL CLRL BSBW	S^#SS\$_NORMAL,R3 #1,R4 W^RETRANGE,R1 R5	
	52 0000 0014	083 0008 CF CF 5	5 F 2	7D 7D 00	0687 068A 068F 0694	622 623 624 625		MOVQ MOVQ MOVL	WARETRA R2, WAIN R2, WASA	EXPREGSUBR INGE, R2 IRANGE IVEND	
	01	FDF6	F	B1 15 DD 7F	0699 069E 06A0 06A2	023		DELTVA	CMPW BLEQ PUSHL PUSHAQ	WAWHICHRUN, WRUN1 30013\$ WO WAGBLSECNAM	: IF USING MAPPED SECTIONS FOR TESTS : DELETE SECTION AND THEN DO A DELTV
00	0000000	GF 0	3	DD FB			700174		PUSHL	#3,G^SYS\$DGBLSC	
	50 51	53 0 0000°C 0008°C	f F B	3C DE DE 30	06AF 06B2 06B7 06BC 06BF 06C5 06C5 06C7 06C9	424	30013\$:	MANEUA	MOVZWL MOVAL BSBW	S^#SS\$ NORMAL,R3 W^INRANGE,R0 W^RETRANGE,R1 DELTVASUBR	
03	01	0028'0	F	CF	06BF	626	7001/6.	MAKEVA	CASEL W	^WHICHRUN,#1,#RUNMAX	
			000	0006° 0019° 0053°	06C5 06C7 06C9		300148:		.WORD 3	0016\$-30014\$ 0017\$-30014\$ 0018\$-30014\$: IF FIRST RUN USE CRETVA. : IF SECOND USE GBL CREMAPSEC : IF THIRD USE PFN MAPPING
	50 51	53 0000'0 0008'0 0A5 007	1	SC DE DE 30	06CB 06CB 06CE 06D3 06D8 06DB 06DE 06E1 06E3 06E5 06E9		30016\$:		MOVZWL MOVAL MOVAL BSBW BRW 300	S^#SS\$ NORMAL,R3 W^INRANGE,R0 W^RETRANGE,R1 CRETVASUBR	
		53 0	1	30	06DE		30017\$:		MOVZWL	S^#SS\$_NORMAL,R3	
		FDB8 (09 40	OD OD OF OD	06E1 06E3 06E5		30020\$:		PUSHL PUSHAL PUSHAL PUSHL	#0 #25 W^FILENAME	

- TEST OF SCRETVA/SDELTVA/SSETPRT SYSTEM 16-SEP-1984 01:57:53
INITIALIZATION 5-SEP-1984 01:57:57 VAX/VMS Macro V04-00 [MMGTST.SRC]MMGCRDLSP.MAR; 1 (6) PUSHAL W^GBLSECNAM #<SEC\$M_GBL!SEC\$M_PERM!SEC\$M_DZRO!SEC\$M_WRT> W^RETRANGE 0000400D 8F 0008 CF DD DF PUSHL PUSHAL 0000 DF W^INRANGE PUSHAL 00000000°EF #8.LIB\$ CREMAPSEC #^X1828X,R0 30020\$ FB113E031 CALLS 0001828A ; IF PREVIOUS GBL SECTION HASN'T BEQL BEEN DELETED TRY CREMAPSEC AGAIN. W^CRMPSCERR,R1 51 FD2B MOVAL CHECK1 BSBW BRW 300198 003C 300188: 01 30 53 MOVZWL S^#SSS_NORMAL,R3 300158: 7E 00 -(SP) DD PUSHL DD 3C PUSHL 7E MOVZWL #0,-(SP) 00 DD PUSHL DD 7F PUSHL FD70 PUSHAQ W^GBL SE CNAM 00014009 DD PUSHL #<SEC\$M_GBL!SEC\$M_PERM!SEC\$M_PFNMAP!SEC\$M_WRT> DD 7F 7F PUSHL 0008 PUSHAQ W^RETRANGE W^INRANGE #12,G^SYS\$CRMPSC #^X1828A,R0 30015\$ 0000 PUSHAQ 00000000 GF FB D1 13 DE 30 OC CALLS 0001828A 8F CMPL ; IF PREVIOUS GBL SECTION HASN'T BEQL BEEN DELETED TRY CREMAPSEC AGAIN. 51 W^CRMPSCERR,R1 FCEC MOVAL 0A08 CHECK1 BSBW 300198: WRITE 90 62 62 MOVB (R2), (R2)DELTVA B1 15 0028 W^WHICHRUN, #RUN1 01 IF USING MAPPED SECTIONS FOR TESTS. 300238 OF BLEQ DELETE SECTION AND THEN DO A DELTVA DD 7F 00 PUSHL FD28 PUSHAQ W^GBLSECNAM DD PUSHL FB 00000000 GF #3,G^SYS\$DGBLSC 03 CALLS 300238: 3C DE DE 30 S^#SS\$ NORMAL,R3 W^INRANGE,R0 W^RETRANGE,R1 MOVZUL 0000 CF MOVAL 0008 CF MOVAL 09BD DELTVASUBR BSBW NOREAD 633 633 635 635 636 637 638 641 642 ALL THE SET PROTECTION TESTS ARE BYPASSED FOR THE SECOND AND THIRD RUNS, WHEN GLOBAL SECTIONS ARE USED, AS IT IS NOT POSSIBLE TO CHANGE THE PROTECTION OF PAGES CREATED IN THIS MANNER. 02 CMPU W^WHICHRUN, #RUNZ 03 045A BLSS 105 BRW BYPASS_SETPRT_TESTS 105:

MMGCRDLSP

V04-000

MMGCRDLSP V04-000				- TE	ST OF S	SCRETVA/SDELT	VA/\$SETP	RT SYSTE	M 16-SEP-1984 01:57:5 5-SEP-1984 01:57:5	3 VAX/VMS Macro VO4-00 Page 16 7 [MMGTST.SRC]MMGCRDLSP.MAR;1 (6)
	03	01	0028°CF	CF 0006° 0019° 0053°	07A5 07A5 07AB 07AB 07AD 07AF	643 30025\$:	MAKEVA		*WHICHRUN, #1, #RUNMAX 00278-300258 00288-300258 00298-300258	; IF FIRST RUN USE CRETVA. ; IF SECOND USE GBL CREMAPSEC ; IF THIRD USE PFN MAPPING
		50 51	53 01 0000 ° CF 0008 ° CF 0975 0076	3C DE DE 30 31	0781 0781 0784 0789 0786 0701	30027\$: 30028\$:		MOVZWL MOVAL MOVAL BSBW BRW 300	S^#SS\$ NORMAL,R3 W^INRANGE,R0 W^RETRANGE,R1 CRETVASUBR	, IT THIND OSE PTH HAPPING
			53 01	30	07C4 07C7	30031\$:		PUSHL	S^#SS\$_NORMAL,R3	
	00	000000	FCD5 CF 00 FCC7 CF 00400D 8F 0008 CF 0000 CF 01828A 8F 01828A 8F 0961 003C	DF DF FB D1 13 DE 30	07C9 07CB 07CF 07D1 07D5 07DB 07E3 07F3 07F8 07FB	300298:		PUSHAL PUSHAL PUSHAL PUSHAL PUSHAL CALLS CMPL BEQL MOVAL BSBW BRW 300	#8,LIBS CREMAPSEC #^X1828X,RO 30031\$ W^CRMPSCERR,R1 CHECK1	RM!SEC\$M_DZRO!SEC\$M_WRT> ;IF PREVIOUS GBL SECTION HASN'T ;BEEN DELETED TRY CREMAPSEC AGAIN.
	000	000000	7E 00 19 7E 00 00 00 FCBA CF 014009 8F 0000 CF 0000 CF 01828A 8F CF FC06 CF 0922	7C DDD 3C DDD 7F DDD 7F F8 D13 DE 30	07FE 0801 0803 0805 0806 0806 0806 0818 0818 0818 0833 0833 0833 0833 0833	30026\$:		MOVZWL CLRQ PUSHL PUSHL PUSHL PUSHL PUSHL PUSHAQ PUSHAQ CALLS CMPL BEQL MOVAL BSBW	S^#SS\$_NORMAL,R3 -(SP) #0 #25 #0,-(SP) #0 W^GBLSECNAM # <sec\$m_gbl!sec\$m_pei #0="" #12,g^sys\$crmpsc="" #^x1828a,r0="" 30026\$="" check1<="" td="" w^crmpscerr,r1="" w^inrange="" w^retrange=""><td>RM!SEC\$M_PFNMAP!SEC\$M_WRT> :IF PREVIOUS GBL SECTION HASN'T :BEEN DELETED TRY CREMAPSEC AGAIN.</td></sec\$m_gbl!sec\$m_pei>	RM!SEC\$M_PFNMAP!SEC\$M_WRT> :IF PREVIOUS GBL SECTION HASN'T :BEEN DELETED TRY CREMAPSEC AGAIN.

UR, PRVPRT=UW
MOVZWL S^#SS\$ NORMAL, R3
MOVAL W^INRANGE, R0
MOVAL W^RETRANGE, R1
MOVZBL S^#PRT\$C_UR, R4
MOVZBL S^#PRT\$C_UW, R5
MOVAL W^PREVPROT, R6
BSBW SETPRTSUBR

30030\$:

SETPRT

644

53 01 0000 ° CF 0008 ° CF 54 0F 55 04 002C ° CF

56

SEEAAEO

		INIT			7 906611	NOWRITE	RT SYSTE	M 16-SEP-1984 01:57:5 5-SEP-1984 01:57:5	7 EMMGTST	Macro V04-00 .SRCJMMGCRDLSP.MAR; 1	Page	17 (6)
			0855 0863	645 646 647 648		READ						
50 51 56	53 01 0000°CF 0008°CF 54 00 55 0F 002C°CF 0998	3C DE 9A 9E 30	0873 0873 0876 0878 0880 0883 0886	648		SETPRT	NA,PRVP MOVZWL MOVAL MOVZBL MOVZBL MOVZBL	S^#SS\$ NORMAL,R3 W^INRANGE,R0 W^RETRANGE,R1 S^#PRT\$C_NA,R4 S^#PRT\$C_UR,R5 W^PREVPROT,R6				
	0770	30	088E	649 650 651		NOREAD	BSBW	SETPRISUBR				
50 51 56	53 01 0000°CF 0008°CF 54 04 55 03 002C°CF 096F	3C DE DE 9A DE 30	08776 08778 08878836 0888886 0888996 0888996 088886 08888 0888 0888 0888 08888 08888 0888 0888 08888 08888 0888 0888 08888 08888 08888 08888 08888 08888 088	651		SETPRT	UW, PRVP MOVZWL MOVAL MOVZBL MOVZBL MOVZBL MOVAL	RT=KR S^#SS\$ NORMAL,R3 W^INRANGE,R0 W^RETRANGE,R1 S^#PRT\$C_UW,R4 S^#PRT\$C_KR,R5 W^PREVPROT,R6 SETPRTSUBR				
	UYOF	30	0887	652		WRITE	BSBW	SEIPRISUBR				
	62 62	90	0867	652 653 654 655		MOVB SETPRT	(R2),(R UR,PRVP	2)	MAKE	DEAD ONLY		
50 51	53 01 0000'CF 0008'CF 54 0F 55 04 002C'CF 0941	SC DE DE 9A DE 30	08CA 08CD 08D2 08D7 08DA 08DD	0))		SEIPHI	MOVZUL MOVAL MOVAL MOVZBL MOVZBL MOVAL	S^#SS\$ NORMAL,R3 W^INRANGE,R0 W^RETRANGE,R1 S^#PRT\$C_UR,R4 S^#PRT\$C_UW,R5 W^PREVPROT,R6 SETPRTSUBR	FIARE	READ ONLY		
	0941	30	08E2 08E5	656 657		NOWRITE	BSBW	SETPRTSUBR				
50 51	53 01 0000°CF 0008°CF 54 00 55 0F 002C°CF 0918	3C DE DE 9A DE 3O	08F3 08F3 08F6 08F6 08FB 0900 0903	657 658		SETPRT	NA, PRVP MOVZUL MOVAL MOVZBL MOVZBL MOVZBL MOVAL	RT=UR S^#SS\$ NORMAL,R3 W^INRANGE,R0 W^RETRANGE,R1 S^#PRT\$C_NA,R4 S^#PRT\$C_UR,R5 W^PREVPRŪT,R6 SETPRTSUBR				
	0918	30	090B	659	ь	NOREAD	BSBW	SETPRTSUBR				
50 51 56	53 01 0000°CF 0008°CF 54 04 55 03 002C°CF 08EF	3C DE DE 9A DE 30	08f3 08f6 08f8 0903 0906 0906 0910 0910 0910 0916 0926 0927 0937 0947 0947	659 660 661		SETPRT	MOVAL MOVZBL MOVZBL MOVAL	RT=KR S^#SS\$ NORMAL,R3 W^INRANGE,R0 W^RETRANGE,R1 S^#PRT\$C_UW,R4 S^#PRT\$C_KR,R5 W^PREYPROT,R6 SETPRTSUBR				
	UDEF	30	0937	662		WRITE	BSBW	JE IFRI JUON				
			0947	662 663 664 665	MAKE A	READ O	NLY DEMA	ND ZERO PAGE AND READ	REFERENCE	11		
			0947	666		DELTVA						

		- TE	ST OF SO	RETVA/SDELT	VA/SSETP	RT SYSTE	M 16-SEP-1984 01:57:53 5-SEP-1984 01:57:57	VAX/VMS Macro V04-00 Page 18 [MMGTST.SRCJMMGCRDLSP.MAR;1 (6)
01	0028 CF 0F 600 FB48 CF 000	B1 15 DD 7F DD FB	0947 0946 0946 0950 0954 0956 0950 0960 0965 0960	30042\$:		CMPW BLEQ PUSHL PUSHAQ PUSHL CALLS	W^WHICHRUN, #RUN1 30042\$ #0 W^GBLSECNAM #0 #3,G^SYS\$DGBLSC	:IF USING MAPPED SECTIONS FOR TESTS, :DELETE SECTION AND THEN DO A DELTVA
50 51	53 01 0000 CF 0008 CF 07DD	SC DE DE 30	0950 0960 0965 096A		MAYEVA	MOVZUL MOVAL MOVAL BSBW	S^#SS\$ NORMAL,R3 W^INRANGE,R0 W^RETRANGE,R1 DELTVASUBR	
03 01	0028°CF	CF	0960	667	MAKEVA	CASEL W	AWHICHRUN,#1,#RUNMAX	
		0006° 0019° 0053°	0973 0973 0975 0977	30043\$:		.WORD 3	0045 \$-3 0043 \$ 0046 \$-3 0043 \$ 0047 \$-3 0043 \$: IF FIRST RUN USE CRETVA. : IF SECOND USE GBL CREMAPSEC : IF THIRD USE PFN MAPPING
50 51	53 01 0000°CF 0008°CF 07AD 0076	3C DE DE 30 31	0979 0970 0970 0981 0986 0989	30045\$:		MOVZWL MOVAL MOVAL BSBW BRW 300	S^#SS\$ NORMAL,R3 W^INRANGE,R0 W^RETRANGE,R1 CRETVASUBR	
	53 01	30	098C 098C	30046\$:		MOVZWL	S^#SS\$_NORMAL,R3	
00000000	FBOD CF 00 FAFF CF 0400D 8F 0008 CF 0000 CF EF 08 1828A 8F D4 FA7D CF	DD DF DD DF FB D1	0975 0977 0979 0979 0981 0986 0986 0986 0986 0986 0991 0993 0997 0993 0993 0998 0998 0998 0998 0998	30049\$:		PUSHL PUSHAL PUSHAL PUSHAL PUSHAL PUSHAL CALLS CMPL BEQL MOVAL	#0 #25 W^FILENAME #0 W^GBLSECNAM # <sec\$m_gbl!sec\$m_perm #8,lib\$_cremapsec="" #^x1828x,r0="" 30049\$="" td="" w^crmpscerr,r1<="" w^inrange="" w^retrange=""><td>!!SEC\$M_DZRO!SEC\$M_WRT> :IF PREVIOUS GBL SECTION HASN'T ;BEEN DELETED TRY CREMAPSEC AGAIN.</td></sec\$m_gbl!sec\$m_perm>	!!SEC\$M_DZRO!SEC\$M_WRT> :IF PREVIOUS GBL SECTION HASN'T ;BEEN DELETED TRY CREMAPSEC AGAIN.
	0799 0030	31	0903	700/74.		BSBW BRW 300	CHECK1	
	53 01	30	0966	30047\$:		MOVZWL	S*#SS\$_NORMAL,R3	
00000000	7E 00 00 00 00 FAC2 CF 14009 8F 00 00 CF 00 00 CF 00 00 CF	7C DD DD 3C DD 7F DD 7F 7F FB	09C6 09C9 09C9 09CB 09CF 09D2 09D4 09D4 09D4 09E0 09E2 09EA 09F1 09F8	30044\$:		CLRQ PUSHL PUSHL PUSHL PUSHAQ PUSHAQ PUSHAQ PUSHAQ PUSHAQ PUSHAQ	WO WARETRANGE WAINRANGE W12.GASYSSCRMPSC	I!SEC\$M_PFNMAP!SEC\$M_WRT>
50 000	1828A 8F	13	09F1 09F8			CMPL BEQL	#4X1828A,R0 30044\$: IF PREVIOUS GBL SECTION HASN'T :BEEN DELETED TRY CREMAPSEC AGAIN.

		IN	TES	T OF SC	RETV	A/SDELTY	VA/\$SETPI	RT SYSTEM	16-SEP-1984 01:57:53 5-SEP-1984 01:57:57	VAX/VMS Macro V04-00 Page [MMGTST.SRC]MMGCRDLSP.MAR; 1	19 (6)
51	FA3E C 075	F S	E					HOVAL	W^CRMPSCERR,R1 CHECK1		
50 51 56	53 0 0000°C 0008°C 55 0 002C°C 080 50 6	F S	CEEAAEOO	0A02 0A05 0A0A 0A0F 0A12 0A15	668	30048\$:	SETPRT	UR, PRVPR MOVZWL MOVAL MOVZBL MOVZBL MOVAL BSBW (R2), RO	T=UW S^#SS\$ NORMAL,R3 W^INRANGE,R0 W^RETRANGE,R1 S^#PRT\$C_UR,R4 S^#PRT\$C_UW,R5 W^PREVPROT,R6 SETPRTSUBR		
			-	0A1D 0A20 0A2E 0A3E	669 670 671 672		MOVB NOWRITE READ DELTVA				
01	0028'C 0 0 FA51 C 'GF 0	F 10 D	1 5 D 5 D 8	0A3E 0A43 0A45 0A47 0A4B			DELIVA	PUSHL	W^WHICHRUN, #RUN1 30053\$ #0 W^GBLSECNAM #0 #3,G^SYS\$DGBLSC	; IF USING MAPPED SECTIONS FOR TE: ; DELETE SECTION AND THEN DO A DE	STS.
50 51	53 0 0000°C 0008°C 06E		CEEO	0A54 0A54 0A57 0A5C 0A61		30053\$:		MOVZWL MOVAL MOVAL	S^#SS\$ NORMAL,R3 W^INRANGE,R0 W^RETRANGE,R1 DELTVASUBR		
				0A64 0A64 0A64 0A64	673 674 675 676 677 678 679 680	AS THE OF PAC DIRECT AND TH	SECTION SES CREATIVES). HUS NEED	NS TEST T TED AT LI THESE PA ONLY BE		N THE FIRST PASS, TEABILITY PSECT Y CURRENT VA POINTERS E FIST PASS AS THE ISION.	
				0A64 0A64	683 684	PSTX F	PAGE WRIT	TABLE, CR	F. NOT YET REFERENCED		
52 0000 0004	0000°C	F 0	E 0 0	0A64 0A69 0A6E	680 681 682 683 684 685 686 687 688 689		MOVAL MOVL	WOURTPAG R2, WOINR R2, WOINR	ES,R2 ANGE ANGE+4		
50 51 56	53 0 0000°C 0008°C 54 0 55 0 002C°C	1 3 F D D F S S S S S S S S S S S S S S S S	CEEAAEO	0A73 0A83 0A83 0A86 0A86 0A90 0A93 0A96 0A98			WRITE SETPRT	UR, PRVPR MOVZUL MOVAL MOVAL MOVZBL MOVZBL MOVAL BSBU	T=UW S^#SS\$ NORMAL,R3 W^INRANGE,R0 W^RETRANGE,R1 S^#PRT\$C_UR,R4 S^#PRT\$C_UW,R5 W^PREVPROT,R6 SETPRTSUBR		
50 51	53 0 0000°C		CEE	OA9E OAAC OABC OABC OABF OAC4	691 692 693		NOWRITE READ SETPRT	NA, PRVPR			

			- TE	ST OF	SCRETV TION	A/\$DEL	TVA/SSETP	RT SYSTEM 16-SEP-1984 01:57:53 VAX/VMS Macro V04-00 5-SEP-1984 01:57:57 [MMGTST.SRC]MMGCRDLSP.MAR;
4	56	54 00 55 0F 002C CF 074F	9A 9A DE 30	OAC9 OACC OACF OAD4 OAD7	694			MOVZBL S^MPRT\$C_NA,R4 MOVZBL S^MPRT\$C_UR,R5 MOVAL W^PREVPROT,R6 BSBW SETPRTSUBR
	50 51 56	53 01 0000°CF 0008°CF 54 04 55 03 002C°CF 0726	3C DE DE 9A DE 30	OAE5 OAE8 OAED OAF2 OAF5 OAF8	695		NOREAD	UW, PRVPRT=KR MOVZWL S^#SS\$ NORMAL.R3 MOVAL W^INRANGE.R0 MOVAL W^RETRANGE,R1 MOVZBL S^#PRT\$C_UW.R4 MOVZBL S^#PRT\$C_KR.R5 MOVAL W^PREVPROT.R6 BSBW SETPRTSUBR
				0B00 0B10 0B10	696	PCTV	WRITE	W DAGE MOT WET DESERVED
	52	0000.08	DE	0B10	699	PSTX	MOVAL	Y PAGE, NOT YET REFERENCED
	52 0000 0004	0000°CF	00	0B10 0B15 0B1A	700 701 702 703 704		MOVL	W^RDPAGES,R2 R2,W^INRANGE R2,W^INRANGE+4
		53 01	30	081F 081F 082D 083D 083D	704 705 706		NOWRITE READ SETPRT	UW.PRVPRT=UR
	50 51 56	0000'CF 0008'CF 54 04 55 0F 002C'CF 06CE	DE DE 9A DE 30	0840 0845 084A 084D 0850 0855	707			MOVZWL S^#SS\$ NORMAL,R3 MOVAL W^INRANGE,R0 MOVAL W^RETRANGE,R1 MOVZBL S^#PRT\$C_UW,R4 MOVZBL S^#PRT\$C_UR,R5 MOVAL W^PREVPROT,R6 BSBW SETPRTSUBR
		62 62	90	0858 0868	707 708		WRITE MOVB	(R2), (R2)
	50 51 56	53 01 0000 CF 0008 CF 54 0F 55 04 002C CF 06A0	SC DE DE 9A DE 30	0868 0868 086E 0873 0878 0878 087E 0883	709		SETPRT	UR, PRVPRT=UW MOVZWL S^#SS\$ NORMAL, R3 MOVAL W^INRANGE, R0 MOVAL W^RETRANGE, R1 MOVZBL S^#PRT\$C_UR, R4 MOVZBL S^#PRT\$C_UW, R5 MOVAL W^PREVPROT, R6 BSBW SETPRTSUBR
				0886 0886 0886	710 711 712	PSTX	READ ONL	Y PAGE - READ REFERENCE IT
	52 0000 0004	0200 C2 CF 52 CF 52	DE DO	0886 0888 0890 0895	712 713 714 715 716 717 718 719 720	•	MOVAL MOVL	^X200(R2),R2 R2,W^INRANGE R2,W^INRANGE+4
		50 62	90	0B95 0BA3 0BB3	717 718 719		NOWRITE READ MOVB	(R2),RO UW,PRVPRT=UR
	50	53 0000 CF 0008 CF 54 04 55 OF	JC DE DE 9A	0886 0886 0889 0886 0803	120		SETPRT	MOVZUL S^#SS\$ NORMAL,R3 MOVAL W^INRANGE,R0 MOVAL W^RETRANGE,R1 MOVZBL S^#PRT\$C_UW,R4 MOVZBL S^#PRT\$C_UR,R5

MM

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- TEST OF SCRETVA/SDELTVA/SSETPRT SYSTEM 16-SEP-1984 01:57:53
INITIALIZATION 5-SEP-1984 01:57:57
MMGCRDLSP
                                                                                                                        VAX/VMS Macro V04-00
[MMGTST.SRC]MMGCRDLSP.MAR;1
                                                                                                                                                                   21 (6)
V04-000
                             002C'CF
0655
                                         DE
30
                                                                                 MOVAL
                                                                                           W^PREVPROT,R6
                                              OBCÉ
OBD1
                                                                                           SETPRISUBR
                                                                                BSBW
                                                                       WRITE
                                         90
                                               OBE
                                                                                (R2),(R2)
UR,PRVPRT=UW
                                                                      MOVB
                                   62
                                               OBE 4
                                                                       SETPRT
                                         SC
DE
DE
9A
                                               OBE4
                                                                                           SAMSSS NORMAL, R3
                                                                                 MOVZWL
                                                                                           W'INRANGE, RO
                                               OBE 7
                             0000 CF
                                                                                 MOVAL
                                                                                           WARETRANGE, R1
                             0008 CF
                                               OBEC
                                                                                 MOVAL
                                   OF
                                               OBF
                                                                                           S^#PRTSC_UR,R4
S^#PRT$C_UW,R5
                                                                                 MOVZBL
                                              OBF 4
                                                                                 MOVZBL
                                         DE
30
                      56
                                                                                           WAPREVPROT , RG
                             0020
                                               OBF 7
                                                                                 MOVAL
                                               OBFC
                                                                                           SETPRISUBR
                                                                                 BSBW
                                               OBFF
                                                       724
725
726
727
728
729
730
731
732
733
734
735
                                                            BYPASS_PSECT_TESTS:
BYPASS_SETPRT_TESTS:
                                               OBFF
                                               OBFF
                                               OBFF
                                               OBFF
                                                               CHECK CREATING THE LAST 2 PAGES OF P1 SPACE
                                               OBFF
                                               OBFF
                                               OBFF
                                                             ******** THIS TEST MIGHT NOT WORK WITH THE DEBUGGER
                                               OBFF
                                                             ******* ON BECAUSE THE LAST TWO PAGES OF P1 SPACE
                                                             ****** NOW CONTAIN THE DEBUGGER CONTEXT AREA.
                                               OBFF
                                               OBFF
                                               OBFF
                                               OBFF
                                                                       MAKEVA
                                                                                #<^x7FFFFC00>,#<^x7FFFFF00>
                03
                      01
                             0028'CF
                                               OBFF
                                                                                 CASEL W'WHICHRUN, #1, #RUNMAX
                                               0C05
                                                             300725:
                                              0005
                                                                                 .WORD 30074$-30072$
.WORD 30075$-30072$
                                       0006
                                                                                                                                   ; IF FIRST RUN USE CRETVA.
                                       002B'
                                              0007
                                                                                                                                   ; IF SECOND USE GBL CREMAPSEC
                                                                                 .WORD 300768-300728
                                               0009
                                                                                                                                   : IF THIRD USE PFN MAPPING
                                                            300748:
                                               OCOB
           0000°CF
                                                                                           #<^X7FFFFC00>,W^INRANGE
#<^X7FFFFF00>,W^INRANGE+4
                        7FFFFC00 8F
                                              OCOB
                                                                                MOVL
                                         00
30
           0004°CF
                        7FFFFF00 8F
                                                                                 MOVL
                                              0C10
0C20
                                                                                           SAMSS NORMAL, R3
                                   01
                                                                                 MOVZUL
                                         DE
DE
30
31
                                                                                           WAINRANGE, RO
                             0000 'CF
                                                                                 MOVAL
                             0008 CF
                                                                                           WARETRANGE, R1
                                                                                 MOVAL
                                0509
                                                                                BSBW
                                                                                           CRETVASUBR
                                009A
                                                                                BRW 30077$
                                                            300758:
                                         D0
D0
3C
                                                                                           #<^X7FFFFC00>,W^INRANGE
#<^X7FFFFF00>,W^INRANGE+4
           0000°CF
                        7FFFFC00 8F
                                                                                 MOVL
           0004 °CF
                        7FFFFF00 8F
                                                                                 MOVL
                                   01
                                                                                           S*#SSS_NORMAL,R3
                                                                                 MOVZWL
                                                            30078$:
                                                                                PUSHL
                                         DD
                                                                                PUSHL
                                         DF
                             F857 CF
                                                                                PUSHAL
                                                                                           W^FILENAME
                                         DD
                                                                                PUSHL
                                   -111
                                                                                          W*GBLSECNAM
#<SEC$M_GBL!SEC$M_PERM!SEC$M_DZRO!SEC$M_WRT>
                             F849
                                         DD
                                                                                PUSHAL
                        0000400D 8F
                                                                                PUSHL
                                         DF
                                                                                           WARETRANGE
                             0008 CF
                                                                                PUSHAL
                                         DF
                             0000 °CF
                                                                                           W^ INRANGE
                                                                                PUSHAL
                                         FB
D1
13
                                                                                           #8,LIBS CREMAPSEC
#*X1828A,RO
                 00000000°EF
                                                                                 CALLS
                       0001828A 8F
                                                                                 CMPL
                                                                                                                          : IF PREVIOUS GBL SECTION HASN'T
                                                                                           30078$
                                   04
                                                                                BEQL
                                                                                                                         BEEN DELETED TRY CREMAPSEC AGAIN.
                            F7C7
                                   CF
                                                                                           W^CRMPSCERR,R1
                                                                                MOVAL
                                                                                BSBW
                                                                                           CHECK 1
                                 004E
                                                                                BRW 30077$
```

SYI

RERS

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MMGCRDLSI V04-000	P			- TE	ST OF	CRET	VA/SDELT	VA/SSETF	PRT SYSTE	EM 16-SEP-1984 01:57: 5-SEP-1984 01:57:	53 VAX/VMS Macro V04-00 Page 22 57 EMMGTST.SRCJMMGCRDLSP.MAR;1 (6)
	0000°CF 0004°CF	7F F	FFF COO 8F FFF F OO 8F 53 01	DO DO 3C	0C7C 0C7C 0C85 0C8E		300768:		MOVL MOVZWL	#<^x7fffffc00>,W^INF #<^x7ffffff00>,W^INF \$^#SS\$_NORMAL,R3	RANGE PANGE+4
			7E 00	7C DD DD 3C DD 7F DD 7F 7F FB	0001 0001 0000 0000 0000 0000 0000		30073\$:		CLRQ PUSHL PUSHL MOVZUL PUSHL PUSHL PUSHAQ	-(SP) #0 #25 #0,-(SP)	
		000	F7FA CF	00	0C9E 0CA2 0CA8				PUSHL	<pre>#<sec\$m_gbl!sec\$m_f #0<="" pre=""></sec\$m_gbl!sec\$m_f></pre>	PERM!SEC\$M_PFNMAP!SEC\$M_WRT>
	000 50	000000 000 51	0008 ° CF 0000 ° CF 0 ° GF 0 1828 A 8F CF F 776 CF 0492	13 DE	0CAA 0CAE 0CB2 0CB9 0CC0 0CC2 0CC7 0CCA		30077\$:		PUSHAQ PUSHAQ CALLS CMPL BEQL MOVAL BSBW	WARETRANGE WAINRANGE W12,GASYSSCRMPSC WAX1828A,RO 30073S WACRMPSCERR,R1 CHECK1	; IF PREVIOUS GBL SECTION HASN'T ; BEEN DELETED TRY CREMAPSEC AGAIN.
	000	01	0028'CF 00 00 F7C5 CF 00 0'GF 03	15 DD 7F DD	OCCA OCCA OCCF OCD1 OCD3 OCD7 OCD9	737	300774	DELTVA	CMPW BLEQ PUSHL PUSHAQ PUSHL CALLS	W^WHICHRUN,#RUN1 30079\$ #0 W^GBLSECNAM #0 #3,G^SYS\$DGBLSC	; IF USING MAPPED SECTIONS FOR TESTS, DELETE SECTION AND THEN DO A DELTVA
	000	50 51	53 01 0000 ° CF 0008 ° CF 045A	3C DE DE	OCEO		30079\$:		MOVZWL MOVAL MOVAL BSBW	S^#SS\$_NORMAL,R3 W^INRANGE,R0 W^RETRANGE,R1 DELIVASUBR	
	03	50	0000°CF		OCF 5	738 739		MOVQ	W^INRAN R1_R0	NGE,RÖ J^WHICHRUN,#1,#RUNMA)	REVERSE THE RANGE AND TRY AGAIN
				0006° 0023° 0067°	OCFB OCFD OCFF		30080\$:		.WORD .WORD .	30082 \$- 30080 \$ 30083 \$- 30080 \$ 30084 \$- 30080 \$; IF FIRST RUN USE CRETVA. : IF SECOND USE GBL CREMAPSEC ; IF THIRD USE PFN MAPPING
		0000 0004 50 51	0 CF 51 CF 50 53 01 0000 CF 0008 CF 041E	DE	0001 0006 0008 0008 0013 0018 0018 0018 0018 0028 0028 0028 0020 0027		30082\$:		MOVL MOVZWL MOVAL MOVAL BSBW BRW 300	R1,W^INRANGE R0,W^INRANGE+4 S^#SS\$ NORMAL,R3 W^INRANGE,R0 W^RETRANGE,R1 CRETVASUBR	
		0000	0°CF 51 53 01	DO DO 3C	001E 0023 0028		30083\$:		MOVL MOVZVL	R1,W^INRANGE R0,W^INRANGE+4 S^#SS\$_NORMAL,R3	
			600 15 F771 CF	DD DD DF	OD 2B OD 2D OD 2F		300863 :		PUSHL PUSHL PUSHAL	#0 #25 W^FILENAME	

MMG Pse

PSE

SAB DAT DAT DAT COD

Pha Ini Com Pas Sym Pas Sym Pse Cro

The 149 The 956 59

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MAC

		00			. 011			EM 16-SEP-1984 01:57:53 5-SEP-1984 01:57:57	VAX/VMS Macro V04-00 Page 23 [MMGTST.SRC]MMGCRDLSP.MAR;1 (6)
000	F763 04000 0008 0000	OO CF CF	DF DF DF	0D33 0D35 0D39 0D3F 0D43 0D47			PUSHAL PUSHAL PUSHAL PUSHAL PUSHAL		M!SEC\$M_DZRO!SEC\$M_WRT>
00000000 50 000 51	F6E1	08 8F D4 CF	DDF DF B13E01	0D47 0D4E 0D55 0D57 0D5C			CALLS CMPL BEQL MOVAL	#8,LIB\$ CREMAPSEC #^x1828X,R0 30086\$ W^CRMPSCERR.R1	; IF PREVIOUS GBL SECTION HASN'T ; BEEN DELETED TRY CREMAPSEC AGAIN.
	0	3FD 046	31	OD5F		700010	BSBW BRW 30	CHECK1	
0000 0004	CF CF 53	51 50	DO DO 3C	0062 0062 0067 006C		30084\$:	MOVL MOVZWL	R1,W^INRANGE RO,W^INRANGE+4 S^#SS\$_NORMAL,R3	
	7E	7E 00 19 00	7 C D D D D D D D D D D D D D D D D D D	OD6F OD6F OD71 OD73 OD75 OD78 OD7C OD80 OD86 OD86		30081\$:	CLRQ PUSHL PUSHL MOVZWL PUSHL	-(SP) #0 #25 #0,-(SP)	
000	F71C 14009	OO CF BF OO	7F DD DD 7F	0D7A 0D7C 0D80 0D86			PUSHL PUSHAQ PUSHL PUSHL PUSHAQ	WO WAGBLSECNAM W <secsm_gbl!secsm_per WO WARETRANGE</secsm_gbl!secsm_per 	M!SEC\$M_PFNMAP!SEC\$M_WRT>
	1828A	OC 8F CF	7F FB D1 13	0D8C 0D90 0D97 0D9E			PUSHAQ CALLS CMPL BEQL	W^INRANGE #12,G^SYS\$CRMPSC #^X1828A,R0 30081\$:IF PREVIOUS GBL SECTION HASN'T ;BEEN DELETED TRY CREMAPSEC AGAIN.
51	F698	CF 384	30	ODAS		300858:	BSBW	W^CRMPSCERR,R1 CHECK1	
01	0028	CF OF OO	81 15 00 7f	ODA8 ODA8 ODAD ODAF	740	DELTVA	CMPW BLEQ PUSHL	W^WHICHRUN, #RUN1 30087\$; IF USING MAPPED SECTIONS FOR TESTS ; DELETE SECTION AND THEN DO A DELTV
00000000	F6E7	CF 00 03	7F DD FB	0D81 0D85 0D87		700074	PUSHAQ PUSHL CALLS	W^GBLSECNAM #0 #3,G^SYS\$DGBLSC	
50 51	53 0000 0008 0	01 'CF 'CF 37C	3C DE DE 30	ODBE ODBE ODC1 ODC6 ODCB		30087\$:	MOVZUL MOVAL MOVAL BSBW	S^#SS\$ NORMAL,R3 W^INRANGE,R0 W^RETRANGE,R1 DELTVASUBR	
				ODCE ODCE ODCE ODCE ODCE	741 742 743 744 745 746 747	RETURN RANGE THE RANGE IS ADDRESSES, TO	I THROUGH	SH THE LAST BYTE OF THE	ARD, THEN RETURN RANGE IS RANGE. IF BACKWARD, THEN BYTE IN THE RANGE. IF S SPECIFIED AS 2 IDENTICAL S FOR PO SPACE, BACKWARDS FOR P1.
50 0014	CF	04	C1	ODCE ODCE ODD4	747 748 749	ADDL3	#4.W^S	AVEND, RO	; ADR NOT AT BEGIN OF PAGE ; SAME ADDRESS, PO SPACE
03 01	0028	°CF	CF	ODD4 ODDA	, 47	30088\$:		JAWHICHRUN, #1, #RUNMAX	FAULT HOUSE OF FIRE
			0006	ODDA			. WORD	30090\$-30088\$; IF FIRST RUN USE CRETVA.

- TEST OF SCRETVA/SDELTVA/SSETPRT SYSTEM 16-SEP-1984 01:57:53
INITIALIZATION 5-SEP-1984 01:57:57 MMGCRDLSP VO4-000 VAX/VMS Macro VO4-00 [MMGTST.SRC]MMGCRDLSP.MAR;1 0023 ODDC .WORD 300918-300888 .WORD 300928-300888 : IF SECOND USE GBL CREMAPSEC : IF THIRD USE PFN MAPPING ODE O ODE O ODE 5 30090\$: 0000°CF RO, W^INRANGE RO, W^INRANGE+4 50 50 01 MOVL MOVL SASS NORMAL, R3 ODEA ODED 0000 WAINRANGE, RO MOVAL 0008' ODF 2 WARETRANGE, R1 MOVAL BSBW CRETVASUBR BRW 30093\$ 033C 008A ODF 7 ODFA 300918: ODFD 50 50 01 DO RO, W^INRANGE RO, W^INRANGE+4 ODFD MOVL 0004 'CF 00 30 0E02 MOVL OE O7 MOVZUL SAMSSS_NORMAL, R3 OE OA 300948: DD **OEOA** PUSHL DD OE OC PUSHL DF DD F692 WAFILENAME OEOE PUSHAL PUSHL W*GBLSECNAM W<SEC\$M GBL!SEC\$M_PERM!SEC\$M_DZRO!SEC\$M_WRT> W*RETRANGE DF F684 PUSHAL DD DF DF 0000400D 0E18 0E1E 0E22 0E26 0E2D PUSHL 0008 CF PUSHAL 0000 CF W^INRANGE PUSHAL 00000000°EF 50 0001828A FB D1 13 #8,LIB\$ CREMAPSEC #^X1828A,RO CALLS CMPL ; IF PREVIOUS GBL SECTION HASN'T 0E34 0E36 300948 BEQL BEEN DELETED TRY CREMAPSEC AGAIN. F602 30 31 MOVAL W^CRMPSCERR,R1 OE 3B 031E BSBW CHECK1 BRW 300938 0046 OE 3E 0E41 300925: 50 50 01 RO, W^INRANGE RO, W^INRANGE+4 0E41 MOVL 0004 °CF 0E46 MOVL OE4B MOVZWL S^#SS\$_NORMAL,R3 300895: OE4E 0E4E 0E50 70 CLRQ -(SP) #0 00 DD 50007F PUSHL PUSHL 7E MOVZWL #0,-(SP) PUSHL 0E59 0E5B 0E5F PUSHL 00014009 W^GBLSECNAM PUSHAQ DD DD 7F 7F PUSHL #<SEC\$M_GBL!SEC\$M_PERM!SEC\$M_PFNMAP!SEC\$M_WRT> 0E65 PUSHL 8000 0E67 0E68 WARETRANGE PUSHAQ W^INRANGE #12,G^SYS\$CRMPSC #^X1828A,RO 0000 °CF PUSHAQ FB D1 13 0E6F 0E76 0E7D 0E7F 00000000 GF CALLS 0001828A ; IF PREVIOUS GBL SECTION HASN'T CMPL BEEN DELETED TRY CREMAPSEC AGAIN. 30089\$ BEQL F 5B9 DE 30 51 MOVAL W^CRMPSCERR,R1 0E84 0E87 0E87 0E87 0205 BSBW CHECK1 300938: 750 DELTVA DELETE SAME ADDRESS PO SPACE B1 15 0028 °CF CMPW W^WHICHRUN, #RUN1 IF USING MAPPED SECTIONS FOR TESTS, 0E8C 0E8E 0E90 0E94 30095\$ BLEQ DELETE SECTION AND THEN DO A DELTVA PUSHI

PUSHAQ

PUSHL

W^GBL SECNAM

#0

F608

DD

CMPL

BEQL

BSBW

DELTVA

MOVAL

W^CRMPSCERR,R1

CHECK1

: IF PREVIOUS GBL SECTION HASN'T

:PO SPACE 1 PAGE FORWARD

BEEN DELETED TRY CREMAPSEC AGAIN.

0001828A

0216

OF 46

OF 46

301018:

753

51

VO

```
- TEST OF SCRETVA/SDELTVA/SSETPRT SYSTEM 16-SEP-1984 01:57:53 INITIALIZATION 5-SEP-1984 01:57:57
                                                                                                                VAX/VMS Macro V04-00
EMMGTST.SRCJMMGCRDLSP.MAR;1
              0028°CF
                                 0F46
0F4B
                                                                                                                  : IF USING MAPPED SECTIONS FOR TESTS .: DELETE SECTION AND THEN DO A DELTVÁ
       01
                           81
15
DD
7F
                                                                                 WAWHICHRUN, #RUN1
30103$
                                                                      BLEQ
                                 OF 4D
                                                                      PUSHL
              F549
                                                                      PUSHAQ
                                                                                W"GBLSECNAM
                           DD
FB
                    00
                                                                      PUSHL
 00000000 GF
                                                                                 #3.G*SYS$DGBLSC
                                                301035:
                                                                                SANSS NORMAL, R3
             53 01
0000 CF
0008 CF
                           3CE 00070
                                                                      MOVZWL
                                                                      MOVAL
                                 0F64
0F69
                                                                      MOVAL
                                                                                 WARETRANGE . R1
                  OIDE
                                                                      BSBW
                                                                                 DELTVASUBR
                                 0F6C
0F71
              0000 'CF
                                          754
755
       50
                                                           MOVQ
                                                                      W'INRANGE, RO
                                                                                                                  REVERSE THE RANGE
                                                           MAKEVA
                                                                     R1, R0
                                                                                                                  1 PAGE BACKWARDS, PO SPACE
03
      01
              0028'CF
                           CF
                                 OF 71
                                                                      CASEL WOWHICHRUN, #1, #RUNMAX
                                                301045:
                        0006°
0023°
0067°
                                                                      .WORD 301068-301048
.WORD 301078-301048
.WORD 301088-301048
                                                                                                                             : IF FIRST RUN USE CRETVA.
                                                                                                                                  SECOND USE GBL CREMAPSEC
                                                                                                                             ; IF THIRD USE PFN MAPPING
                                 OF 7B
                                 OF7D
                                                30106$:
                                                                                R1, W^INRANGE
R0, W^INRANGE+4
S^#SS$ NORMAL, R3
W^INRANGE, R0
      0000'CF
                           DO
DO
30
                    51
50
01
                                                                      MOVL
                                 OF 82
OF 87
                                                                      MOVL
                                                                      MOVZWL
                           DE
DE
30
              0000'CF
                                 OF 8A
                                                                      MOVAL
              0008 'CF
                                 OF 8F
                                                                      MOVAL
                                                                                 WARETRANGE, RT
                  019F
                                 OF94
                                                                      BSBW
                                                                                 CRETVASUBR
                  A800
                                 OF 97
                                                                      BRW 301098
                                 OF 9A
                                                30107$:
      0000°CF
0004°CF
53
                    51
50
01
                                 OF 9A
                                                                      MOVL
                                                                                 R1,W^INRANGE
                           00
30
                                 OF 9F
                                                                                 RO.W^INRANGE+4
                                                                      MOVL
                                 OF A4
                                                                                SANSS NORMAL, R3
                                                                      MOVZWL
                                 OFA7
                                                301108:
                    00
                           DD
                                 OF A7
                                                                      PUSHL
                           DD
DF
                                 OF A9
                                                                      PUSHL
             F4F5
                                 OF AB
                                                                      PUSHAL
                                                                                W^FILENAME
                           DD
DF
                                 OF AF
                                                                      PUSHL
             F4E7
                                 OFB1
                                                                      PUSHAL
                                                                                 W^GBLSECNAM
                           DD
DF
        0000400D
                                 OFB5
                                                                      PUSHL
                                                                                 #<SEC$M_GBL!SEC$M_PERM!SEC$M_DZRO!SEC$M_WRT>
              0008'CF
                                 OF BB
                                                                      PUSHAL
                                                                                 WARETRANGE
              0000°CF
                           DF
                                                                                W^INRANGE
                                 OFBF
                                                                      PUSHAL
                                                                                #8,LIB$ CREMAPSEC
#^x1828A,R0
30110$
 00000000°EF
                           FB 01 3 DE 03 1
                                 OFC3
                                                                      CALLS
        0001828A
                                 OF CA
                                                                      CMPL
                                                                                                                  : IF PREVIOUS GBL SECTION HASN'T
                                 OFD1
                                                                      BEQL
                                                                                                                  BEEN DELETED TRY CREMAPSEC AGAIN.
       51
             F465
                                 OFD3
                                                                      MOVAL
                                                                                 W^CRMPSCERR,R1
                                                                     BRW 301098
                  0181
                                 OF D8
                  0046
                                 OFDB
                                 OFDE
                                                30108$:
      0000 ° CF
0004 ° CF
53
                           D0
D0
3C
                    51
50
01
                                                                                R1, W^INRANGE
RO, W^INRANGE+4
                                 OFDE
                                                                      MOVL
                                                                      MOVL
                                 OFE8
                                                                      MOVZWL
                                                                                S*#SS$_NORMAL,R3
                                                301058:
                                                                      CLRQ
                                                                                 -(SP)
                           DD
                                                                      PUSHL
                                                                                 #0
                           DD
3C
                                 OFEF
                                                                      PUSHL
                                                                                 #0,-(SP)
              7E
                                 OFF'
                                                                      MOVZUL
                           DD
DD
7F
                                 OFF4
                                                                      PUSHL
                                                                      PUSHL
              F4A0
                                                                      PUSHAQ
                                                                                W^GBLSECNAM
```

	- TEST OF SCRET	VA/SDELTVA/SSETP	PRT SYSTEM 16-SEP-1984 01:57:5 5-SEP-1984 01:57:5	3 VAX/VMS Macro V04-00 Page 27 [MMGTST.SRC]MMGCRDLSP.MAR;1 (6)
00014009 8F 00 0008 CF 0000 CF 00000000 GF 50 0001828A 8F CF 51 F41C CF 0138	DD OFFC DD 1002 7F 1004 7F 1008 FB 100C D1 1013 13 101A DE 101C 30 1021	201000	PUSHL # <sec\$m_gbl!sec\$m_perpushl #0="" #12.g^sys\$crmpsc="" #^x1828a,r0="" 30105\$="" beql="" bsbw="" calls="" check1<="" cmpl="" moval="" pushaq="" td="" w^crmpscerr,r1="" w^inrange="" w^retrange=""><td>RM!SEC\$M_PFNMAP!SEC\$M_WRT> :IF PREVIOUS GBL SECTION HASN'T :BEEN DELETED TRY CREMAPSEC AGAIN.</td></sec\$m_gbl!sec\$m_perpushl>	RM!SEC\$M_PFNMAP!SEC\$M_WRT> :IF PREVIOUS GBL SECTION HASN'T :BEEN DELETED TRY CREMAPSEC AGAIN.
01 0028°CF 0F 00 F468 CF 00 00000000°GF 03	1024 756 B1 1024 15 1029 DD 102B 7F 102D DD 1031 FB 1033	DELTVA	CMPW W^WHICHRUN, #RUN1 BLEQ 30111\$ PUSHL #0 PUSHAQ W^GBLSECNAM PUSHL #0 CALLS #3, G^SYS\$DGBLSC	;1 PAGE BACKWARDS, PO SPACE ;1F USING MAPPED SECTIONS FOR TESTS, ;DELETE SECTION AND THEN DO A DELTVA
50 0000°CF 51 0008°CF 0100 50 000C°CF	3C 103A DE 103D DE 1042 30 1047 DO 104A 757 104F 758	MOVL MAKEVA	MOVZWL S^#SS\$ NORMAL,R3 MOVAL W^INRANGE,R0 MOVAL W^RETRANGE,R1 BSBW DELTVASUBR W^RETRANGE+4,R0 RO,R0 CASEL W^WHICHRUN,#1,#RUNMAX	CREATE 1 PAGE P1 SPACE
	0006' 1055 0023' 1057 0067' 1059		.WORD 301148-301128 .WORD 301158-301128 .WORD 301168-301128	: IF FIRST RUN USE CRETVA. : IF SECOND USE GBL CREMAPSEC : IF THIRD USE PFN MAPPING
0000°CF 50 0004°CF 50 53 01 50 0000°CF 51 0008°CF 0001 008A	DE 106D		MOVL RO, W^INRANGE MOVL RO, W^INRANGE+4 MOVZWL S^#SS\$ NORMAL, R3 MOVAL W^INRANGE, RO MOVAL W^RETRANGE, R1 BSBW CRETVASUBR BRW 30117\$	
0000°CF 50 0004°CF 50 53 01	00 1078 00 1070 30 1082		MOVL RO, W^INRANGE MOVL RO, W^INRANGE+4 MOVZWL S^#SS\$_NORMAL,R3	
00 19 F417 CF 00 F409 CF 00004000 8F 0000 CF 00000 CF 00000000 EF 08 50 0001828A 8F 04 51 F387 CF 00A3	DD 1085 DD 1087 DF 1089 DD 108D DF 108F DD 1093 DF 1099 DF 109D FB 10A1 D1 10A8 13 10AF DE 10B1 30 10B6	30118\$:	CALLS #8.LIB\$ CREMAPSEC CMPL #^X1828A,RO BEQL 30118\$ MOVAL W^CRMPSCERR,R1 BSBW CHECK1	RM!SEC\$M_DZRO!SEC\$M_WRT> :IF PREVIOUS GBL SECTION HASN'T ;BEEN DELETED TRY CREMAPSEC AGAIN.
	000000000 GF OC	00014009 8f DD 0FFC 0008'CF 7F 1004 0000000'CF 7F 1008 50 0001828A 8F D1 1013 51 F41C CF DE 101C 0138 30 1024 01 0028'CF B1 1024 01 0028'CF B1 1024 00 DD 102B F468 CF 7F 102D 0000000'GF 03 FB 103A 50 0000'CF DE 103D 51 0008'CF DE 103A 50 0000'CF DE 103A 51 0008'CF DE 1047 50 000C'CF D0 104A 757 50 000C'CF D0 104A 757 0067' 1059 0004'CF 50 D0 105B 0004'CF 50 D0 105B 0004'CF 50 D0 105B 0004'CF 50 D0 105B 0004'CF 50 D0 1078 0000'CF 50 D0 1078 0000'C	00014009 8f DD OFFC 000 DD 1002 0008 CF 7F 1004 00000000 GF 0C FB 100C 50 0001828A 8F DI 1013 51 F41C CF DE 101C 0138 30 1021 1024 756 01 0028 CF BI 1024 0F 15 1029 00 DD 102B F46B CF 7F 102D 00 DD 1031 0000000 GF 03 FB 1033 103A 50 0000 CF DE 103D 51 0008 CF DE 1042 0100 30 1047 50 000C CF DD 1048 0006 1055 0023 1057 0067 1058 0000 CF 50 D0 105B 0004 CF 50 D0 105B 0004 CF 50 D0 105B 0004 CF 50 D0 1060 53 01 3C 1065 50 0000 CF DE 106B 51 0008 CF DE 106B	- TEST OF \$CRETVA/\$DELTVA/\$SETPRT SYSTEM 16-SEP-1984 01:57:5 00014009 8F

MMGCRDLSP V04-000				- TE	ST OF STALIZAT	CRET	VA/SDELT	VA/SSETF	PRT SYSTE	M 16-SEP-1984 01:57:53 5-SEP-1984 01:57:57	VAX/VMS Macro V04-00 Page 28 [MMGTST.SRC]MMGCRDLSP.MAR;1 (6)		
	0000) CF CF 53	50 50 01	00 00 30	10BC 10C1 10C6		701178.		MOVL MOVZWL	RO, W^INRANGE RO, W^INRANGE+4 S^#SS\$_NORMAL,R3			
	7E 00 19 7E 00 00 19 00 00 6 5 0 00 00 6 5 0 00 6 6 00 00 6 6 00 00 6 6 00 00 6 6 00 00			DO 10BC DO 10C1 3C 10C6 10C9 7C 10C9 DD 10CB DD 10CD 3C 10CF DD 10D2 DD 10D4 7F 10D6 DD 10E0 7F 10E6 FB 10EA D1 10F1 13 10F8 DE 10FA			301138:		CLRQ -(SP) PUSHL #0 PUSHL #25 MOVZWL #0,-(SP) PUSHL #0 PUSHL #0 PUSHAQ W*GBLSECNAM		RM!SEC\$M_PFNMAP!SEC\$M_WRT> ;IF PREVIOUS GBL SECTION HASN'T ;BEEN DELETED TRY CREMAPSEC AGAIN.		
	F 381 00000000 ° GF 53 50 0000	00281 F38D	CF B1 1 OF 15 1 OO DD 1 CF 7F 1 OO DD 1 O3 FB 1	B1 1102 15 1107 DD 1109 7F 110B	1102 1107 1109 110B 110F 1111	759	30117\$: 30119\$:	DELTVA	CMPW BLEQ PUSHL PUSHAQ PUSHL CALLS	W^WHICHRUN, #RUN1 30119\$ #0 W^GBLSECNAM #0 #3, G^SYS\$DGBLSC	DELETE 1 PAGE P1 SPACE; IF USING MAPPED SECTIONS FOR TESTS.; DELETE SECTION AND THEN DO A DELTVA		
		53 0000 0008	01 CF CF 022	SC DE DE 30	1118 1118 1120 1125 1128 1128	760 761			MOVZWL MOVAL MOVAL BSBW	S^#SS\$ NORMAL,R3 W^INRANGE,R0 W^RETRANGE,R1 DELTVASUBR			
0	3 0020°CF	001C	CF	F3	1128 1128 1128 1128	762	END OF	AOBLEQ	WAMAXPA	SSCNT, W^PASSCNT, 160\$			
			51A	31	1133 1133 1136	764 765 766 767 768	150 \$:	BRW	MAIN_PR RSTART	UGRAM			

RANGECHK

R1 = RETADR R3 = DESIRED STATUS

1189

1BA

1BA

1BD

180 1180

180

11BD

31

00D9

RSB

BRW

105:

INPUT:

VO

21 52 20

21 52 20

20 20 45

40

4E 4C 58

21 45 20

4E

GO CHECK THE RETURN RANGE

POPL

57 8EDO

V04

56 33 50

- TEST OF \$CRETVA/\$DELTVA/\$SETPRT SYSTEM 16-SEP-1984 01:57:53 VAX/VMS Macro V04-00 SUBROUTINES TO CALL THE SERVICES 5-SEP-1984 01:57:57 [MMGTST.SRC]MMGCRDLSP.MAR;1 MMGCRDLSP V04-000 007B 30 05 RSBW TYPEMSGBUF 305: RANGE CHK: BRANCH IF RANGE CHECK DISABLED;
IF ERROR IN SERVICE, SKIP RANGE CHK
RO = STARVA, R1 = ENDVA;
WHICH DIRECTION?
BRANCH IF BACKWARDS;
BRANCH IF FORWARDS BBC #CTL\$V_RNGCHK,W^CTLFLG,40\$
RO,40\$
W^INRANGE,RO 73 0010'CF E1 970 01 1A 1F E0 0000 MOVQ RO R1 CMPL BGTRU BLSSU OC 50 FOR EQUAL, PO SPACE FORWARDS, P1 BA #30,R0,10\$ REQUESTED RANGE IS FORWARDS BICW BISW BRB #^X1FF,R0 #^X1FF,R1 20\$ AA A8 11 FROM BYTE O OF STARTVA OIFF THROUGH LAST BYTE OF ENDVA GOING BACKWARDS IN VIRTUAL ADDRESS SPACE :LAST BYTE OF STARTVA :THROUGH FIRST BYTE OF ENDVA :IS THIS WHAT WAS RETURNED? :BRANCH IF NOT, ERROR #^X1FF,RO #^X1FF,R1 RO,W^RETRANGE 30\$ 8F 50 O1FF O1FF A8 AA D1 12 D1 13 DD 105: BISW 0008'CF 20\$: CMPL BNEQ R1.WARETRANGE+4 THIS ONE OK TOO? 000C'CF CMPL BEQL SAVE REGISTER TO USE FOR ERROR PC FORMAT THE ERROR MESSAGE 305: PUSHL MOVL SFAO_S 4(SP) .R3 04 AE <W^RANGERR>, MSGLEN, MSGBUFD, R3,-INRANGE, INRANGE+4, RETRANGE, RETRANGE+4 BA 30 05

#^M<R3>

TYPEMSGBUF

RESTORE SAVE REGISTER

AND RETURN

OUTPUT THE ERROR MESSAGE

POPR

BSBW

RSB

130C 130F

916

405:

0001

```
- TEST OF $CRETVA/$DELTVA/$SETPRT SYSTEM 16-SEP-1984 01:57:53 VAX/VMS Macro V04-00 MISCELLANEOUS SUBROUTINES 5-SEP-1984 01:57:57 [MMGTST.SRC]MMGCRDLSP.MAR;1
                                                               .SBTTL MISCELLANEOUS SUBROUTINES
                                                    TYPE A MESSAGE
MSGBUF IS THE ADDRESS OF THE BEGINNING OF THE STRING
MSGLEN CONTAINS THE SIZE (IN BYTES) OF THE STRING
                                                  TYPEMSGBUF:
        00C0 CF
00E2 CF
CF 02
00D4 CF
50 0E
                                                                           W^MSGLEN,RO
W^MSGBUF,R1
#CTL$V_PIDMSG,W^CTLFLG,5$
W^MSGBUFID,R1
S^#<MSGBUF-MSGBUFID>,RO
                                                                                                                                SIZE TO RO
ADDRESS TO R1
BRANCH IF NO PROCESS ID REQUIRED
ADDRESS INCLUDING PID MSG
50 000
51 00E
0010 CF
51 00E
                                                               MOVL
                         DO
DE
E1
DE
CO
                                                               MOVAL
                                                               MOVAL
                                                               ADDL
                                                                                                                                 INCLUDE EXTRA BYTES IN COUNT
00A4'CF
009E'CF
                         D0
B0
                                                                           R1.W^RAB+RAB$L_RBF
R0.W^RAB+RAB$W_RSZ
W^RAB
                51
                                                                                                                                SET BUFFER ADDRESS
                                                               MOVL
                                                               WVOM
                                                              SPUT
                                                                                                                                OUTPUT THE MESSAGE
            01 50
                                                              BLBC
                                                                            RO.20$
                                                              RSB
                                                 20$:
                                                              SEXIT_S RO
                                                                                                                                :EXIT WITH ERROR STATUS
                                                    INPUTS:
                                                              O(SP) = ADDRESS OF ERROR
R1 = ADDRESS OF FORMAT CONTROL STRING
                                                    OUTPUTS:
                                                              R2 PRESERVED
                                                 PROBERR:
           04 AE
                        DD
                                                              PUSHL
                                                                           4(SP),R5
(R1),MSGLEN,MSGBUFD,R5
M^M<R5>
                                                              MOVL
                                                              SFAO_S
                         BA
30
05
             FFA4
                                                              POPR
                                                              BSBW
                                                                            TYPEMSGBUF
                                                              RSB
```

.END

START

MGCRDLSP ymbol table	- TEST OF	SCRETVA/SDEL	TVA/SSETPRT SYSTEM 16-SEP-	1984 01:57:53 VAX/VMS M 1984 01:57:57 [MMGTST.S	acro V04-00 RCJMMGCRDLSP.MAR; 1	Page 3
S.TAB S.TABEND S.TMP	= 0000007C = 000000C0 = 00000000	R 02	GBL SEC MESSAGE	= 00000006 00000548 R 00000474 R 00000312 R	05 05 05	
S.TMP1 S.TMP2	= 00000001 = 000000CF		IDMSGADR IDMSGSIZ	00000312 R = 00000039	ŎŚ	
TMP1 TMP2 T1	= 00000000 = 00000004		IDMSGADR IDMSGSIZ INIT START INRANGE	= 00000039 0000058C R 00000000 R 00000526 R	05 02	
PASS_SETPRT_TESTS	= 0000004 00000BFF	R 05	1.60	00000526 R	05 02 05 05 05 02 02 02 02	
PASS_SETPRI_TESTS IECK1 IECK2 DEPAGES	00000877	R 05	MAXPASSCNT	00000507 R 0000001C R	05	
DEPAGES ETVAERR	00000BFF 0000115C 000011D1 00000000 00000424 0000000A	R 05 R 05 R 05 R 05 R 05	MSGBUF	00000024 R 00000062 R	02	
RETVAERRADR RETVAERRSIZ RETVASUBR	0000000A = 00000063	R 05	LIBS_CREMAPSEC MAIN_PROGRAM MAXPASSCNT MAXWHICHRUN MSGBUF MSGBUFD MSGBUFID MSGBUFSIZ	00000507 R 00000507 R 0000001C R 000000024 R 00000004 R 00000000 R 000000454 R 00000258 R = 00000024 R 00000258 R = 00000025 R 0000029E R = 00000025 R 00000000 R 00000000 R	02	
ETVASUBR ETVA_MESSAGE	= 0000000A 00001136 0000052C 0000000D4 000000000 = 00000063 = 00000001 = 00000004 = 00000008 = 00000002	R 05	MODEANEDD	0000000 R	02 05 05	
LF	00000004 0000043C	R 05 R 05 R 05 R 05	NOREADERRADR NOREADERRSIZ NOWRITERR NOWRITERRADR NOWRITERRADR NOWRITERRSIZ OUTNAMADR OUTNAMADR OUTNAMADR	00000258 R = 00000024	őś	
MPSCERRADR MPSCERRADR MPSCERRSIZ L\$M_MEMLOOP L\$M_PIDMSG L\$M_RNGCHK L\$M_TSTLOOP L\$V_MEMLOOP L\$V_PIDMSG L\$V_RNGCHK L\$V_TSTLOOP	00000000 = 0000063	R 05	NOWRITERR NOWRITERRADR	00000464 R 0000029E R	05	
LSM_MEMLOOP LSM_PIDMSG	= 00000001 = 0000004		NOWRITERRSIZ OUTNAMADR	= 00000025 00000000 R	05	
L\$M_RNGCHK L\$M_TSTLOOP	= 00000008 = 00000002		OUTNAMS1Z PASSCNT	= 0000000A 00000020 R		
L\$V_MEMLOOP L\$V_PIDMSG	= 00000000 = 00000002		PID PESSAGE	0000056A R 00000018 R	02 05 02 05 05	
L\$V_RNGCHK L\$V_TSTLOOP	= 00000003 = 0000001		PIDCTL PIDCTLADR	00000494 R 00000410 R	05 05	
LTVÄERR	0000010 0000420	R 02 R 05 R 05	PIDCTLSIZ PIDMSG PIDMSGD	= 00000003 000000DE R	02	
LTVAERRADR LTVAERRS1Z	0000042C 0000006D = 00000063		DDESTADT	000000CC R	02 02 05	
LTVASUBR	00000514	R 05 R 05 R 05 R 05	PROBERR	0000002C R 0000134A R	02 05	
PREGERR PREGERRADR	00000434	R 05	PREVPROT PROBERR PRTSC_KR PRTSC_NA PRTSC_NONE PRTSC_UW PRTSC_UW	0000002C R 0000134A R = 00000003 = 00000000 = 00000010 = 0000000F = 00000004		
PREGERRS I Z PREGSUBR	= 00000072 000011BD	R 05	PRISC UR	= 00000010 = 0000000F		
B\$C_BID B\$C_BLN B\$C_SEQ B\$C_VAR	= 00000063 0000114A 00000514 00000133 = 00000072 0000118D 0000002C = 00000003 = 00000000	R 02	RAB RABSB_RAC RABSC_BID RABSC_BLN RABSC_SEQ RABSL_CTX RABSL_RBF RABSL_RCP RABSW_RSZ RANGEERN	= 00000004 0000007C R = 0000001E	02	
BSC_SEQ RSC_VAR	= 00000000		RABSC_BID	= 0000001		
B\$L_ALQ B\$L_FOP	= 00000010 = 00000004		RABSC_SEQ RABSL_CTX	= 00000000		
B\$V_CHAN_MODE B\$V_FILE_MODE	= 00000002 = 0000004		RABSL RBF	= 00000028 = 0000004		
BSV-LNM MODE BSV-PUT	= 00000000 = 00000000		RABSWERSZ RANGECHK	= 00000022 00001296 R	05	
BSL-ALQ BSL-FOP BSV-CHAN_MODE BSV-FILE-MODE BSV-LNM_MODE BSV-PUT BSW-GBC LENAME LENAMEADR	= 00000048 000004A4	R 05	RANGERRADR	= 0000007C R = 0000001E = 00000001 = 00000000 = 00000018 = 00000028 = 00000028 = 00000022 00001296 R 00000263 R	05 05 05	
FEMALE 215	= 00000050 = 000000002 = 00000010 = 00000004 = 00000004 = 00000000 = 00000000 = 00000048 00000419 = 000000496	R 05	RANGERRS I Z RDPAGES	0000000 R		
L SECNAM L SECNAMADR	0000049C 00000413	R 05 R 05	READERR READERRADR	0000044C R 00000237 R	04 05 05	

MM

MMGCRDLSP symbol table	- TEST OF	SCRETVA/SDELTVA	A/SSETPRT SYSTEM	16-SEP-1984 01:57:53 5-SEP-1984 01:57:57	VAX/VMS Macro VO4-0 EMMGTST.SRCJMMGCRDL	00 Page .SP.MAR;1	34
READERRSIZ RETRANGE START	= 00000021 00000008 00000650 = 0000001 00000470 00000348	R 02 R 05					
RUN1 RUN1_MSG RUN1_MSGADR RUN1_MSGS1Z	= 00000001 00000470 00000348 = 00000043	R 05 R 05					
UNZ UNZ MSG UNZ MSGADR UNZ MSGSIZ	= 00000043 = 00000002 00000484 0000038E = 00000044						
UN3 MSG UN3 MSGADR UN3 MSGS1Z UNMAX	0000048C 00000302 = 0000003E	R 05					
AVEND ECSM_DZRO ECSM_GBL ECSM_PERM ECSM_PFNMAP	= 00000004 = 00000001 = 0004000 = 00010000						
ECSM WRT ETPRTERR ETPRTERRADR ETPRTERRSIZ ETPRTSUBR IZ	= 00000008 00000444 000001A5 = 00000092 00001226 = 00000001 = 00000619	R 05					
S\$_CREATED S\$_EXQUOTA S\$_NORMAL S\$_VASFULL TART	= 00000619 = 00000010 = 00000244 000004AC						
YS\$CONNECT YS\$CRETVA YS\$CRMPSC YS\$DELTVA YS\$DGBLSC YS\$EXIT YS\$EXPREG YS\$FAO	******	GX 05 GX 05					
YS\$OPEN YS\$PUT YS\$RESUME YS\$SETPRT YPEMSGBUF HICHRUN IRITERR	**************************************	GX 05 GX 05 GX 05 GX 05 GX 05 GX 05 GX 05 GX 05 GX 05 R 05 R 05					
RITERRADR BRITERRSIZ BRTPAGES	= 0000027C = 00000022 00000000	R 05					

MMC

! Psect synopsis !

PSECT name	Allocation	PSECT No.	Attributes			
SABS . SABS DATAO DATA1 DATA2 CODE	00000000 (0.) 00000000 (0.) 00000182 (386.) 00000800 (2048.) 00001360 (4973.)	00 (0.) 01 (1.) 02 (2.) 03 (3.) 04 (4.) 05 (5.)	NOPIC USR NOPIC USR NOPIC USR NOPIC USR NOPIC USR NOPIC USR	CON ABS CON REL CON REL CON REL CON REL CON REL	LCL NOSHR NOEXE NORD LCL NOSHR EXE RD LCL NOSHR NOEXE RD LCL NOSHR NOEXE RD LCL NOSHR NOEXE RD LCL NOSHR EXE RD	WRT NOVEC PAGE

Performance indicators

Phase	Page faults	CPU Time	Elapsed Time
Initialization	16	00:00:00.09	00:00:00.72
Command processing	16 122 522	00:00:00.91	00:00:06.54
Symbol table sort	200	00:00:01.45	00:00:03.52
Symbol table output	284 20	00:00:00.17	00:00:00.73
Psect synopsis output Cross-reference output	3	00:00:00.04	00:00:00.24
Assembler run totals	969	00:00:25.82	00:01:24.78

The working set limit was 1950 pages.
149717 bytes (293 pages) of virtual memory were used to buffer the intermediate code.
There were 50 pages of symbol table space allocated to hold 908 non-local and 139 local symbols.
956 source lines were read in Pass 1, producing 33 object records in Pass 2.
59 pages of virtual memory were used to define 47 macros.

! Macro Library statistics !

Macro Library name

\$255\$DUA28:[SYS.OBJ]LIB.MLB;1

\$255\$DUA28:[SYSLIB]STARLET.MLB;2

TOTALS (all Libraries)

Macros defined

2
29
31

1170 GETS were required to define 31 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LISS:MMGCRDLSP/OBJ=OBJS:MMGCRDLSP MSRCS:MMGCRDLSP/UPDATE=(ENHS:MMGCRDLSP)+EXECMLS/LJB

0236 AH-BT13A-SE

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